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ABSTRACT

This appendix of state-by-state results is designed as a companion reference to two National Assessment of Educational Progress (NAEP) reports containing national data from the 1992 mathematics assessment. It contains a selected set of state-by-state data tables that focus on the school and classroom contexts for learning mathematics in grades 4 and 8. Data tables are presented in the following sections: (1) Demographic Characteristics of Schools; (2) School Problems and Climate; (3) Students' Home Background; (4) Curricular Emphasis and Coursework in Mathematics; (5) Mathematics Teachers and Their Classes; (6) Classroom Instructional Approaches; (7) Calculators and Computers; and (8) Students' Perceptions of Mathematics. Some findings include: (1) the percentage of students reporting no absences during the month prior to the assessment increased and the percentage reporting 3 days or more absent, decrease in six states: Indiana, Iowa, Maryland, Minnesota, North Carolina, and Wisconsin; (2) in 10 states, there was a significant increase in the percentage of students who reported reading more than 10 pages daily, and in no state was there a decrease in this amount of daily reading for school; and (3) the overall trends in homework assigned at grade 8 showed a general shift from 15 to 30 minutes of homework typically assigned each day. (JRH)

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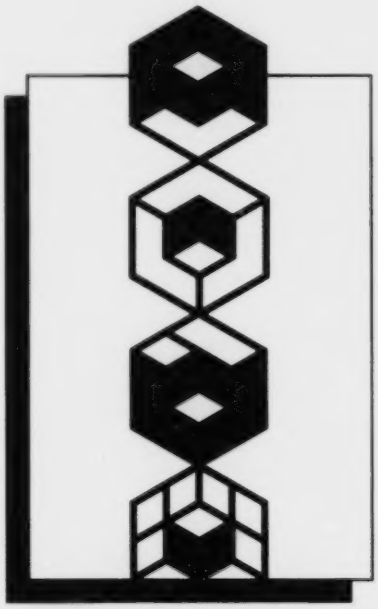

Report No. 23-DA-01 October 1994

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INTRODUCTION

This appendix of state-by-state results is designed as a companion reference to two NAEP reports containing national data from the 1992 mathematics assessment. These two reports are:

How School Mathematics Functions:
Perspectives from the NAEP
1990 and 1992 Assessments

This report contains background questionnaire information from students at grades 4, 8, and 12 as well as the teachers of the fourth and eighth graders about school curricular practices, resource availability, and instructional approaches in mathematics. The report also presents information about students' perceptions about mathematics and the high school mathematics courses they have taken. The background data are related to students' achievement on the cognitive portion of the assessment.

Effective Schools in Mathematics:
A Research and Development Report

This report is part of the NCES Research and Development series. It focuses on the school questionnaire results collected from principals or their designees. The report presents information about the characteristics of the top-performing one-third of the schools compared to their bottom-performing counterparts as well as the results of hierarchical analyses adjusting for associations among key schooling variables.

Full details about the methods and procedures underlying NAEP's 1992 Trial State Assessment Program can be found in the *Technical Report of the NAEP 1992 Trial State Assessment Program in Mathematics*. The operational aspects of the

state assessments also are summarized in the Procedural Appendix of the *NAEP 1992 Mathematics Report Card for the Nation and the States* as well as in the Procedural Appendix of *Can Students Do Mathematical Problem Solving?* – the two NAEP reports containing the 1992 mathematics achievement results for the nation and the states. The *1992 Mathematics Report Card* concentrates on summary data for various demographic subpopulations, including performance trends between 1990 and 1992 at grade 8. *Can Students Do Mathematical Problem Solving?* focuses on results for questions where students were asked to construct their own written responses. A comprehensive set of national and state tables is contained in the *Data Compendium for the NAEP 1992 Mathematics Assessment of the Nation and the States.*

The Information in This Appendix

This appendix contains a selected set of state-by-state data tables that focus on the school and classroom contexts for learning mathematics at grades 4 and 8. Generally, across jurisdictions, there were few dramatic changes in school context between 1990 and 1992, yet there were a few indications that some aspects of school reform may be taking hold. For example, students may be spending more time on their schooling by virtue of improving their attendance and spending more time on homework. As shown in TABLE A.7, the percentage of students reporting no absences during the month prior to the assessment increased and the percentage reporting three days or more absent decreased in six states: Indiana, Iowa, Maryland, Minnesota, North Carolina, and Wisconsin. Other participating states also showed some evidence of improved attendance with either an increase in the percentage of students with no absences or a decrease in the percentage of students missing three days or more of school during the past month.

Also, eighth graders across the states and territories indicated that the they were reading more for their schoolwork in 1992 than in 1990 (TABLE A.29). In 10 states, there was a significant increase in the percentage of students who reported reading more than 10 pages daily, and in no state was there a decrease in this amount of daily reading for school.

Similarly, the overall trends in homework assigned at grade 8 presented in TABLE A.35 showed a general shift from 15 to 30 minutes of homework typically assigned each day. Between 1990 and 1992, teachers reported decreases in the percentages of students assigned 15 minutes of mathematics homework

each night in 13 participating jurisdictions and increases in the percentages of students assigned 30 minutes of daily homework in 10 of the jurisdictions.

There also were some signs of progress for some recommendations targeted specifically toward reform in school mathematics, most notably those of the National Council of Teachers of Mathematics (NCTM) in its *Curriculum and Evaluation Standards for School Mathematics*. For example, TABLE A.48 contains the teachers' reports about staff development opportunities for the states and territories. In 1992, from 5 to 36 percent of the fourth graders were estimated to have been taught by teachers who had spent no time on in-service education in mathematics or mathematics teaching during the year before the assessment. At grade 8, however, fewer students (from an estimated 3 to 16 percent) had teachers who reported no time spent in mathematics staff development, and this reflected an improvement compared to 1992. In 16 states, there was an increase in the percentage of eighth graders whose teachers reported 16 hours or more of in-service training in mathematics or mathematics instruction during the year before the assessment. In 1992, these percentages ranged from an estimated 23 percent in Guam, 27 percent in New York, and 28 percent in Massachusetts to an estimated 61 percent in California.

Pervasive increases in at least a "moderate" amount of attention being paid to various mathematics content areas may reflect attempts to better balance the mathematics curricula across a broader range of material (see TABLES A.37 through A.42). Between 1990 and 1992, 34 of the participating jurisdictions also showed significant increases in the percentages of students receiving moderate emphasis in measurement. In most cases, the increases matched similar decreases in the percentages of students receiving little or no emphasis in measurement. Similarly, 30 states had significant increases in the percentages of students receiving moderate emphasis in geometry and 24 had decreases in the percentages of students receiving little or no emphasis in geometry. The percentage of eighth graders receiving instructional emphasis in algebra and functions also increased in some states between 1990 and 1992. The District of Columbia and Louisiana showed significantly greater percentages of students receiving heavy instructional emphasis and 11 other jurisdictions reported significantly greater percentages of students receiving moderate emphasis in algebra and functions. Despite these shifts, however, an emphasis in numbers and operations remains central to the curriculum even at grade 8. In 1992, most eighth graders across the states and territories — from 57 to 86 percent — were receiving heavy instructional emphasis in numbers and operations.

As shown in TABLE A.43, 11 of the states and territories had increased percentages of eighth graders receiving instructional emphasis in reasoning, and seven had increased percentages receiving heavy instructional emphasis in communication — two areas emphasized in the *NCTM Standards*.

Among other areas of interest it can be noted that 15 jurisdictions had a significant decrease in the percentage of their eighth graders assigned to ability groups for instruction in mathematics (TABLE A.51), 30 jurisdictions reported an increase in the percentage of students asked to do mathematics problems from their textbooks on a daily basis (TABLE A.52), and 29 jurisdictions reported an increase in the percentage of students being afforded unrestricted use of calculators in their mathematics classes (TABLE A.76).

A Note on Interpretations

The selection of background questions included in the NAEP mathematics assessment was guided by the *NAEP 1992 Background Questionnaire Framework*.[1] In developing the framework, the committee of policy analysts and researchers considered the wide body of available research about factors including student learning as well as the particular purposes and strengths of NAEP data collection. In contrast to other questionnaires, which may ask for detailed information on a small set of topics, the 1992 NAEP questionnaires attempted to include a few well-targeted questions addressing a wide variety of topics. NAEP always has been sensitive to its voluntary nature and the burden it places on respondents. A deliberate effort has been made to curtail the questionnaires to about 15 to 30 minutes for any one respondent. (Students, of course, also spend approximately an hour on the achievement portion of the assessment.) Thus, a limited pool of questions was included in the assessment and the results necessarily must be considered in light of ongoing research about instructional practices.

When there are constraints, choices need to be made. In selecting the background questions associated with NAEP's 1992 mathematics assessment, three goals were kept in mind:

- to provide an educational context for understanding data on student achievement

[1] *National Assessment of Educational Progress, 1992 Background Questionnaire Framework* (Princeton, NJ: National Assessment of Educational Progress, Educational Testing Service, 1992).

- to identify differences in access to instruction and distribution of services for various types of students
- to track changes in policy-relevant variables across time

As much as possible, this report presents data in an attempt to address these goals. The survey data collected by NAEP can be used to monitor trends in key areas, while ongoing research can be used to determine the classroom contexts that best foster achievement. NAEP is able to ask questions that collect information about whether schools are implementing those strategies that research has found to be most effective in helping students learn.

Because NAEP's is the only comprehensive set of data about school mathematics regularly collected at the national level, the NAEP information from teacher and student questionnaires has served the mathematics education community in a number of ways over the past 20 years. Topics of interest in this appendix include patterns in curricular emphasis and the use and impact of hand calculators as well as profiles of teachers' mathematical and pedagogical backgrounds. It also presents information on changes in the testing and assessment practices of teachers.

It is unwise, however, to rely too heavily on responses to any single question. Also, particularly given the reform environment, there undoubtedly is some inherently ambiguous language in the questions. Different terms have different meaning to different people, and these alternate understandings can be further pronounced depending on differences in contexts and environments. Still, the data can be used to point practitioners toward examining their own program in greater detail. Perhaps more than anything, the data from the NAEP questionnaires can provide educators with a basis to confirm or illuminate patterns observed at the local level. They provide a back-up litmus test for checking the reasonableness of local findings. They also provide a source of questions and approaches for examining local policy issues, conducting local studies, and creating local initiatives to change practice.

Because of their basis in research, the NAEP survey results often help to confirm our understanding of how school and instructional factors relate to achievement. Although the effects of schooling and instruction are of prime concern, these analyses do not reveal the underlying relationships between background factors and performance. Associations between NAEP background factors and mathematics achievement must necessarily be interpreted cautiously given the correlational nature of NAEP data and the complexity of the context in

which learning takes place. For example, associations may result because of differential instruction in which teachers tailor what they do based on their perceptions of students' abilities. That is, some instructional strategies may be more effective or appropriate for high-achieving students, while others are more suitable for lower-achieving students. In particular, various remedial techniques are often associated with lower average proficiency — not because these strategies in any way cause lower achievement, but because the poorer-performing students need special assistance.

Relationships between average proficiency and contextual variables are also affected by socioeconomic factors, which make it easier for wealthy school districts to hire better educated and more experienced teachers, and to provide more instructional materials than poorer districts. Poorer districts also have to contend with poverty and its attendant social problems, which, in turn, tend to depress student achievement.

In considering the findings reported herein, the reader should keep firmly in mind the high degree of interrelatedness among all the factors involved. It is impossible to ascribe cause and effect to a single variable; no single variable by itself will result in higher achievement. The NAEP assessment results are most useful when they are considered in light of other knowledge about the education system, such as trends in instructional reform, changes in the school age population, and societal demands and expectations. Throughout this report, references are provided to assist the reader in finding additional related information about the topics covered.

Acknowledgments

The data presented herein reflect a culmination of effort by hundreds of individuals who contributed their considerable expertise, energy, and creativity to NAEP's mathematics assessments, from developing and conducting the assessments to analyzing and reporting the results. NAEP's Trial State Assessment Program benefited from the contributions of numerous individuals at the state and local levels — Governors, Chief State School Officers, State and District Test Directors, State Coordinators, and district administrators — who tirelessly provided their wisdom, experience, and hard work. Most importantly, NAEP is grateful to the students and school staff who made the assessments possible. Special appreciation also is expressed to Robert Patrick and David Freund of Educational Testing Service, who designed and implemented the state-by-state table generation system. Sharon Davis-Johnson provided the excellent desktop publishing skills essential to the project.

Demographic Characteristics of Schools

TABLE A.1 **Average Mathematics Proficiency for the States and for the Top-Performing One-Third Schools and the Bottom-Performing One-Third Schools**

PUBLIC SCHOOLS	Grade 4 - 1992				
	Average Proficiency	Top One-Third Schools		Bottom One-Third Schools	
		Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	217 (0.8)	44 (2.9)	234 (0.9)	23 (1.6)	192 (1.0)
Northeast	223 (2.1)	59 (6.7)	236 (2.1)	24 (3.8)	194 (2.1)
Southeast	209 (1.9)	21 (5.2)	234 (2.8)!	38 (4.3)	192 (1.9)
Central	222 (2.2)	56 (8.3)	233 (1.2)	12 (3.3)	190 (3.2)!
West	217 (1.6)	43 (4.4)	232 (1.9)	20 (2.6)	190 (1.3)
STATES					
Alabama	207 (1.6)	34 (5.2)	225 (1.8)	32 (4.5)	188 (1.1)
Arizona	214 (1.1)	35 (2.9)	230 (1.0)	35 (3.7)	197 (1.6)
Arkansas	209 (0.9)	33 (3.7)	222 (1.5)	32 (3.7)	194 (1.5)
California	207 (1.6)	34 (4.8)	228 (1.5)	31 (3.9)	183 (2.2)
Colorado	220 (1.0)	35 (4.0)	234 (1.0)	32 (3.3)	205 (1.0)
Connecticut	226 (1.2)	36 (3.9)	242 (1.1)	30 (3.2)	203 (2.4)
Delaware	217 (0.8)	31 (0.2)	228 (1.9)	40 (0.3)	207 (1.4)
Dist. Columbia	191 (0.5)	30 (0.3)	211 (0.9)	36 (0.3)	175 (0.8)
Florida	212 (1.5)	34 (4.4)	229 (1.3)	33 (4.0)	194 (1.9)
Georgia	214 (1.3)	32 (4.2)	234 (1.2)	36 (3.4)	196 (1.2)
Hawaii	213 (1.3)	32 (4.1)	229 (1.1)	34 (4.6)	197 (1.4)
Idaho	220 (1.0)	33 (4.4)	231 (1.1)	34 (5.2)	211 (1.2)
Indiana	220 (1.1)	34 (4.5)	232 (0.7)	33 (4.6)	206 (1.2)
Iowa	229 (1.1)	34 (4.7)	240 (0.8)	33 (4.1)	217 (1.2)
Kentucky	214 (1.0)	35 (3.5)	226 (1.0)	32 (3.6)	201 (0.9)
Louisiana	203 (1.4)	36 (4.1)	221 (1.4)	33 (4.1)	181 (2.1)
Maine	231 (1.0)	31 (4.8)	241 (1.3)	34 (5.7)	221 (0.9)
Maryland	216 (1.3)	32 (3.5)	236 (1.3)	35 (3.6)	195 (2.1)
Massachusetts	226 (1.2)	37 (4.4)	241 (1.2)	28 (3.8)	203 (1.9)
Michigan	219 (1.8)	34 (5.2)	236 (1.4)	33 (4.4)	197 (2.9)
Minnesota	227 (0.9)	31 (4.1)	239 (0.9)	38 (4.7)	217 (1.4)
Mississippi	200 (1.1)	31 (2.9)	218 (1.1)	36 (3.4)	183 (1.6)
Missouri	221 (1.2)	38 (4.6)	234 (1.1)	32 (3.9)	204 (1.9)
Nebraska	224 (1.3)	34 (4.8)	238 (1.0)	33 (4.4)	209 (1.1)
New Hampshire	229 (1.2)	33 (5.0)	241 (1.4)	32 (4.6)	215 (1.1)
New Jersey	226 (1.5)	37 (4.5)	243 (1.3)	31 (3.1)	202 (2.7)
New Mexico	212 (1.5)	34 (5.2)	227 (1.5)	35 (5.3)	197 (1.4)
New York	217 (1.3)	32 (3.6)	235 (1.2)	37 (4.6)	198 (2.1)
North Carolina	211 (1.1)	34 (4.1)	227 (1.3)	34 (4.5)	197 (1.0)
North Dakota	228 (0.8)	34 (4.4)	237 (0.9)	34 (3.9)	218 (0.9)
Ohio	217 (1.2)	34 (3.9)	234 (1.1)	29 (3.6)	199 (1.9)
Oklahoma	219 (1.0)	37 (4.5)	230 (1.1)	30 (3.8)	207 (1.2)
Pennsylvania	223 (1.4)	33 (4.5)	240 (1.2)	30 (3.9)	202 (2.2)
Rhode Island	214 (1.6)	35 (4.9)	231 (1.4)	32 (4.1)	192 (2.4)
South Carolina	211 (1.1)	36 (4.2)	226 (1.1)	31 (3.7)	194 (1.4)
Tennessee	209 (1.4)	34 (4.1)	225 (1.3)	33 (4.4)	193 (1.8)
Texas	217 (1.3)	37 (4.7)	231 (1.7)	33 (3.8)	200 (1.5)
Utah	223 (1.0)	32 (4.1)	235 (0.9)	35 (4.7)	211 (1.1)
Virginia	220 (1.3)	35 (4.2)	239 (1.6)	34 (3.6)	202 (1.2)
West Virginia	214 (1.1)	35 (4.0)	225 (1.5)	33 (4.0)	202 (1.1)
Wisconsin	228 (1.1)	34 (5.0)	238 (1.2)	32 (4.5)	214 (1.5)
Wyoming	224 (1.0)	30 (4.0)	234 (0.9)	37 (5.0)	215 (1.2)
TERRITORY					
Guam	191 (0.8)	33 (0.1)	202 (1.5)	37 (0.2)	180 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.1 **Average Mathematics Proficiency for the States and for the Top-Performing One-Third Schools and the Bottom-Performing One-Third Schools (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992				
		Top One-Third Schools		Bottom One-Third Schools	
	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	266 (1.0)	39 (4.1)	284 (1.2)	25 (1.9)	240 (1.4)
Northeast	267 (3.0)	45 (9.0)	285 (3.5)	29 (3.8)	237 (2.6)
Southeast	258 (1.2)	9 (4.4)	284 (1.6)!	37 (5.5)	242 (2.8)
Central	273 (2.2)	59 (8.2)	284 (1.5)	14 (2.6)	240 (3.6)
West	267 (2.1)	45 (9.6)	282 (2.0)!	20 (3.7)	240 (1.7)
STATES					
Alabama	251 (1.7)	32 (4.6)	269 (1.8)	36 (4.7)	234 (2.9)
Arizona	265 (1.3) >	37 (4.5)	279 (1.5) >	32 (3.7)	247 (2.0) >
Arkansas	255 (1.2)	32 (3.9)	270 (1.1)	33 (4.1)	240 (1.4)
California	260 (1.7)	34 (4.4)	281 (1.9) >	33 (4.1)	236 (2.0)
Colorado	272 (1.1) >	34 (4.1)	286 (1.3) >	34 (4.0)	257 (1.3) >
Connecticut	273 (1.1) >	34 (3.1)	293 (0.9) >	36 (3.2)	251 (2.1)
Delaware	262 (1.0)	29 (0.2) »	273 (1.8)	41 (0.2) «	255 (1.3) >
Dist. Columbia	234 (0.9) >	32 (0.6) »	255 (1.8)	38 (0.4)	219 (1.1)
Florida	259 (1.5)	36 (4.1)	276 (1.4) >	34 (3.8)	241 (2.4)
Georgia	259 (1.2)	34 (4.6)	275 (1.3)	34 (3.9)	242 (1.3)
Hawaii	257 (0.9) »	37 (0.3) «	270 (1.2) »	31 (0.3) «	241 (1.3) »
Idaho	274 (0.8) >	29 (3.9)	283 (1.0) >	34 (3.5)	266 (1.1) >
Indiana	269 (1.2)	34 (5.3)	283 (1.3)	32 (3.6)	254 (1.6)
Iowa	283 (1.0) »	32 (4.6)	293 (1.0)	33 (4.6)	272 (1.1) >
Kentucky	261 (1.1) >	33 (4.7)	275 (1.4) >	36 (4.6)	250 (1.1)
Louisiana	249 (1.7)	33 (4.9)	268 (1.9) >	32 (4.2)	229 (2.1)
Maine[1]	278 (1.0)	30 (4.6)	289 (1.6)	37 (4.7)	269 (1.1)
Maryland	264 (1.3)	32 (4.0)	286 (1.5)	34 (3.4)	241 (2.6)
Massachusetts[1]	272 (1.1)	35 (4.3)	289 (1.5)	33 (3.3)	251 (1.7)
Michigan	267 (1.4)	35 (5.1)	285 (1.7)	33 (3.4)	242 (1.9)
Minnesota	282 (1.0) »	35 (4.8)	291 (1.0) »	33 (5.5)	272 (1.1) »
Mississippi[1]	246 (1.2)	34 (4.8)	262 (1.1)	33 (2.9)	228 (1.1)
Missouri[1]	270 (1.2)	31 (4.6)	282 (0.8)	34 (4.8)	257 (2.0)
Nebraska	277 (1.1)	27 (4.7)	291 (1.2)	39 (4.7)	266 (1.3) >
New Hampshire	278 (1.0) »	29 (4.3)	287 (1.5)	35 (4.1)	268 (1.0) »
New Jersey	271 (1.6)	30 (3.4)	293 (1.2) >	34 (4.1)	245 (3.2)
New Mexico	259 (0.9) >	31 (4.0)	273 (1.1)	29 (3.3)	245 (1.2) >
New York	266 (2.1)	30 (3.8)	288 (1.3) »	39 (4.8)	241 (3.9)
North Carolina	258 (1.2) »	34 (4.8)	270 (1.2) »	33 (4.9)	244 (1.5) »
North Dakota	283 (1.2)	26 (4.0) <	293 (1.5)	37 (4.3)	275 (1.4) »
Ohio	267 (1.5)	34 (5.2)	284 (1.6) >	31 (4.4)	246 (2.1)
Oklahoma	267 (1.2) >	32 (4.5)	280 (1.1)	35 (5.0)	255 (1.5) >
Pennsylvania	271 (1.5)	36 (4.5)	286 (1.3)	33 (4.0)	253 (2.1)
Rhode Island	265 (0.7) »	31 (0.2)	280 (1.0)	32 (0.1) «	247 (1.4)
South Carolina[1]	260 (1.0)	33 (3.5)	276 (1.2)	33 (3.7)	244 (1.2)
Tennessee[1]	258 (1.4)	33 (4.3)	272 (1.4)	33 (4.6)	243 (1.8)
Texas	264 (1.3) >	36 (4.2)	282 (1.5) »	33 (4.0)	246 (1.1) >
Utah[1]	274 (0.7)	32 (3.9)	283 (0.9)	35 (4.3)	265 (0.8)
Virginia	267 (1.2)	33 (4.3)	285 (1.5)	34 (4.2)	248 (1.2) >
West Virginia	258 (1.0)	32 (4.9)	269 (1.0)	33 (5.0)	248 (1.1) >
Wisconsin	277 (1.5)	39 (5.0)	289 (1.1)	31 (4.3)	261 (2.3)
Wyoming	274 (0.9) >	28 (3.1)	283 (1.4)	29 (3.4)	265 (1.8)
TERRITORIES					
Guam	234 (1.0) >	13 (0.2) «	244 (3.2)	45 (0.3)	229 (1.8)
Virgin Islands	222 (1.1) >	28 (0.2) «	232 (1.3)	52 (0.1) »	214 (1.3) >

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.2 | Average Mathematics Proficiency by Race/Ethnicity and Type of Community

PUBLIC SCHOOLS	Grade 4 - 1992									
	White		Black		Hispanic		Asian / Pacific Islander		American Indian	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	69 (0.4)	226 (1.0)	17 (0.4)	191 (1.4)	10 (0.2)	199 (1.5)	3 (0.3)	232 (2.6)	2 (0.2)	208 (3.5)
Northeast	71 (2.9)	232 (2.4)	17 (2.7)	194 (3.1)	8 (1.2)	200 (3.2)	2 (0.7)	*** (***)	1 (0.3)	*** (***)
Southeast	61 (2.5)	219 (2.2)	30 (2.6)	190 (2.0)	6 (1.0)	198 (3.4)	1 (0.3)	*** (***)	1 (0.3)	*** (***)
Central	80 (1.8)	228 (1.8)	12 (1.7)	192 (4.3)	6 (0.8)	198 (3.3)	1 (0.2)	*** (***)	1 (0.3)	*** (***)
West	64 (1.7)	225 (1.8)	10 (1.7)	188 (2.7)	17 (1.6)	200 (2.0)	5 (1.0)	232 (3.2)	2 (0.3)	*** (***)
STATES										
Alabama	61 (2.5)	218 (1.6)	32 (2.3)	187 (1.1)	4 (0.6)	192 (4.0)	1 (0.2)	*** (***)	2 (1.0)	*** (***)
Arizona	56 (2.1)	225 (0.8)	4 (0.7)	198 (3.6)	29 (1.5)	202 (1.3)	1 (0.2)	*** (***)	10 (1.7)	191 (3.5)
Arkansas	69 (1.5)	217 (1.0)	21 (1.4)	187 (1.7)	6 (0.6)	193 (2.9)	1 (0.2)	*** (***)	3 (0.4)	210 (3.7)
California	45 (2.0)	220 (1.8)	6 (0.7)	182 (3.3)	35 (1.7)	190 (1.6)	11 (1.1)	223 (2.7)	3 (0.5)	207 (6.7)
Colorado	68 (1.5)	227 (1.1)	5 (1.0)	199 (2.9)	22 (1.3)	205 (1.5)	3 (0.3)	222 (4.4)	3 (0.3)	214 (4.5)
Connecticut	73 (1.4)	234 (0.9)	10 (1.1)	193 (2.7)	13 (1.1)	204 (2.8)	2 (0.4)	*** (***)	1 (0.2)	*** (***)
Delaware	66 (1.1)	226 (0.9)	23 (0.9)	196 (1.4)	8 (0.4)	197 (2.6)	1 (0.2)	*** (***)	2 (0.4)	*** (***)
Dist. Columbia	5 (0.4)	241 (4.2)	82 (0.6)	189 (0.7)	10 (0.4)	181 (2.3)	1 (0.2)	*** (***)	2 (0.3)	*** (***)
Florida	58 (2.2)	223 (1.4)	21 (2.0)	189 (2.0)	17 (1.3)	205 (2.5)	2 (0.4)	*** (***)	2 (0.3)	*** (***)
Georgia	56 (2.2)	228 (1.2)	35 (2.1)	195 (1.4)	6 (0.6)	196 (2.7)	1 (0.2)	*** (***)	1 (0.3)	*** (***)
Hawaii	21 (1.6)	218 (1.8)	4 (0.6)	198 (3.3)	11 (0.7)	197 (2.6)	61 (2.1)	215 (1.6)	2 (0.3)	*** (***)
Idaho	84 (1.2)	223 (1.0)	1 (0.2)	*** (***)	11 (1.0)	202 (2.4)	1 (0.2)	*** (***)	3 (0.3)	212 (3.0)
Indiana	82 (1.5)	224 (0.9)	10 (1.3)	194 (2.4)	5 (0.6)	208 (2.0)	1 (0.2)	*** (***)	1 (0.3)	*** (***)
Iowa	90 (0.9)	231 (1.0)	2 (0.5)	193 (3.9)!	5 (0.5)	218 (2.6)	1 (0.3)	*** (***)	2 (0.3)	*** (***)
Kentucky	85 (1.6)	216 (1.0)	9 (1.3)	200 (2.5)	4 (0.6)	197 (3.0)	1 (0.2)	*** (***)	2 (0.3)	*** (***)
Louisiana	50 (2.0)	217 (1.5)	43 (2.0)	186 (1.7)	5 (0.6)	199 (4.3)	2 (0.7)	*** (***)	1 (0.3)	*** (***)
Maine	91 (0.7)	232 (1.1)	1 (0.1)	*** (***)	5 (0.6)	218 (3.6)	1 (0.2)	*** (***)	3 (0.5)	*** (***)
Maryland	59 (1.7)	228 (1.2)	30 (1.4)	193 (1.9)	6 (0.6)	205 (3.6)	4 (0.5)	235 (3.8)	2 (0.2)	*** (***)
Massachusetts	79 (1.6)	231 (1.0)	7 (0.8)	192 (3.1)	8 (0.8)	205 (2.7)	4 (0.7)	228 (8.0)	2 (0.2)	*** (***)
Michigan	73 (1.8)	227 (1.5)	13 (1.7)	184 (3.9)	9 (0.9)	204 (2.6)	2 (0.3)	*** (***)	3 (0.4)	210 (4.0)
Minnesota	85 (1.3)	231 (0.9)	3 (0.5)	192 (3.1)	7 (0.8)	206 (2.9)	2 (0.4)	*** (***)	2 (0.3)	*** (***)
Mississippi	40 (2.0)	217 (1.3)	52 (2.1)	188 (1.3)	6 (0.9)	184 (2.9)	1 (0.2)	*** (***)	1 (0.2)	*** (***)
Missouri	77 (1.7)	227 (1.1)	14 (1.7)	194 (2.2)	6 (0.5)	206 (3.2)	1 (0.2)	*** (***)	2 (0.4)	*** (***)
Nebraska	84 (1.3)	228 (1.2)	6 (0.7)	188 (2.5)	7 (0.9)	209 (3.2)	1 (0.2)	*** (***)	2 (0.3)	*** (***)
New Hampshire	89 (1.2)	230 (1.1)	1 (0.2)	*** (***)	5 (0.6)	214 (2.7)	1 (0.2)	*** (***)	3 (0.3)	*** (***)
New Jersey	66 (2.2)	236 (1.3)	14 (1.2)	197 (2.6)	14 (1.5)	205 (2.6)	5 (0.8)	240 (3.0)	1 (0.3)	*** (***)
New Mexico	44 (2.4)	224 (1.5)	4 (0.5)	201 (3.9)	47 (2.0)	202 (1.5)	1 (0.3)	*** (***)	4 (1.3)	206 (2.9)!
New York	59 (2.2)	228 (1.4)	13 (1.6)	198 (2.7)	22 (1.7)	198 (2.3)	4 (0.8)	235 (4.4)!	2 (0.4)	*** (***)
North Carolina	62 (1.7)	222 (1.1)	29 (1.3)	191 (1.3)	6 (0.7)	198 (4.2)	1 (0.2)	*** (***)	3 (0.9)	202 (4.9)!
North Dakota	91 (1.0)	229 (0.8)	0 (0.2)	*** (***)	4 (0.6)	213 (3.6)	1 (0.2)	*** (***)	4 (0.8)	211 (3.2)!
Ohio	79 (1.5)	221 (1.1)	11 (1.2)	193 (3.0)	6 (0.5)	206 (3.3)	1 (0.3)	*** (***)	2 (0.4)	216 (4.2)
Oklahoma	73 (1.5)	223 (1.0)	9 (1.2)	200 (2.6)	7 (0.8)	208 (2.5)	1 (0.2)	*** (***)	10 (0.8)	211 (2.0)
Pennsylvania	77 (1.6)	230 (1.2)	12 (1.6)	192 (2.5)	7 (0.8)	203 (2.3)	2 (0.4)	*** (***)	1 (0.3)	*** (***)
Rhode Island	78 (2.1)	221 (1.3)	6 (1.0)	189 (3.4)	11 (1.1)	188 (2.8)	3 (0.4)	191 (4.3)	2 (0.3)	*** (***)
South Carolina	55 (1.7)	224 (1.2)	37 (1.8)	193 (1.1)	6 (0.8)	198 (2.7)	1 (0.2)	*** (***)	1 (0.3)	*** (***)
Tennessee	69 (2.1)	217 (1.2)	23 (1.9)	191 (1.9)	5 (0.8)	191 (4.2)	1 (0.4)	*** (***)	1 (0.2)	*** (***)
Texas	49 (1.8)	228 (1.7)	14 (1.8)	197 (2.0)	34 (2.3)	207 (1.9)	2 (0.4)	234 (4.5)	1 (0.2)	*** (***)
Utah	86 (1.0)	225 (1.0)	1 (0.2)	*** (***)	10 (0.8)	208 (2.2)	2 (0.3)	*** (***)	2 (0.3)	*** (***)
Virginia	67 (1.4)	228 (1.5)	23 (1.3)	196 (1.5)	5 (0.6)	211 (3.4)	3 (0.4)	236 (4.6)	1 (0.3)	*** (***)
West Virginia	90 (0.9)	215 (1.0)	3 (0.4)	202 (4.4)	5 (0.8)	202 (3.0)	1 (0.2)	*** (***)	2 (0.2)	*** (***)
Wisconsin	81 (1.4)	233 (0.9)	6 (1.0)	194 (2.9)	7 (0.7)	211 (3.0)	2 (0.5)	*** (***)	3 (1.1)	206 (8.0)!
Wyoming	82 (1.4)	227 (0.9)	1 (0.2)	*** (***)	11 (0.9)	214 (1.8)	1 (0.2)	*** (***)	5 (1.2)	211 (4.0)!
TERRITORY										
Guam	12 (0.7)	205 (2.0)	4 (0.4)	183 (5.4)	20 (0.8)	179 (2.1)	62 (1.0)	193 (1.2)	2 (0.4)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. The percentages for race/ethnicity may not add to 100 percent because some students categorized themselves as "other." When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.2 | **Average Mathematics Proficiency by Race/Ethnicity and Type of Community (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992									
	White		Black		Hispanic		Asian / Pacific Islander		American Indian	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	69 (0.4)	276 (1.1)	16 (0.2)	236 (1.3)	10 (0.3)	245 (1.3)	2 (0.2)	287 (6.6)	1 (0.2)	254 (2.9)
Northeast	67 (2.6)	279 (3.3)	19 (1.5)	239 (3.8)	10 (1.7)	241 (3.8)!	2 (0.5)	*** (***)	1 (0.3)	*** (***)
Southeast	68 (1.8)	269 (1.2)	27 (1.8)	233 (1.7)	4 (0.7)	240 (2.8)!	1 (0.3)	*** (***)	1 (0.2)	*** (***)
Central	79 (2.0)	280 (2.0)	13 (1.9)	239 (3.5)	5 (0.8)	246 (4.2)	2 (0.5)	*** (***)	1 (0.4)	*** (***)
West	63 (1.5)	277 (2.4)	8 (1.3)	234 (3.5)	21 (1.7)	246 (1.6)	5 (0.8)	286(11.3)	2 (0.7)	*** (***)
STATES										
Alabama	61 (2.3)	264 (1.4)	32 (2.1)	231 (2.2)	4 (0.6)	220 (5.3)	1 (0.2)	*** (***)	2 (0.4)	*** (***)
Arizona	60 (2.1)	275 (1.1)>	4 (0.5)	251 (3.4)	28 (1.6)	247 (2.7)	2 (0.3)	*** (***)	6 (1.3)	251 (2.7)»
Arkansas	72 (1.4)	265 (1.0)	22 (1.3)	230 (1.9)	4 (0.4)	228 (4.1)	1 (0.2)	*** (***)	1 (0.2)	*** (***)
California	44 (1.8)	276 (1.9)	7 (1.1)	233 (3.6)	36 (1.7)	240 (2.0)	11 (1.0)	276 (2.9)	1 (0.2)	*** (***)
Colorado	74 (1.2)	278 (1.0)>	4 (0.6)	241 (4.4)	18 (1.1)	254 (1.7)>	2 (0.3)	*** (***)	2 (0.3)	*** (***)
Connecticut	72 (1.6)	283 (0.9)»	12 (1.1)	242 (2.9)	12 (0.9)	241 (2.4)	3 (0.4)	287 (8.0)	0 (0.1)	*** (***)
Delaware	65 (0.9)	272 (1.0)>	25 (1.1)	241 (1.8)	6 (0.6)	239 (3.4)	2 (0.3)	*** (***)	2 (0.3)	*** (***)
Dist. Columbia	3 (0.2)	*** (***)	85 (0.8)	233 (0.9)	10 (0.7)	225 (3.8)	1 (0.2)	*** (***)	1 (0.3)	*** (***)
Florida	56 (2.1)	273 (1.3)»	23 (2.0)	236 (2.3)	18 (2.0)	245 (2.5)	2 (0.3)	*** (***)	1 (0.2)	*** (***)
Georgia	59 (2.1)	270 (1.3)	35 (1.9)	241 (1.3)	4 (0.5)	233 (5.5)	2 (0.3)	*** (***)	0 (0.1)	*** (***)
Hawaii	17 (0.9)	265 (1.6)	3 (0.3)	*** (***)	11 (0.7)	238 (2.2)	66 (1.1)	259 (1.1)»	1 (0.2)	*** (***)
Idaho	88 (0.7)	277 (0.8)>	1 (0.2)	*** (***)	8 (0.6)	253 (2.3)	1 (0.2)	*** (***)	3 (0.4)	259 (4.2)
Indiana	85 (1.3)	273 (1.2)	8 (1.1)	243 (2.6)	4 (0.6)	249 (4.6)	1 (0.2)	*** (***)	1 (0.2)	*** (***)
Iowa	92 (0.7)	284 (1.0)>	2 (0.4)	*** (***)	4 (0.4)	261 (3.8)	1 (0.2)	*** (***)	1 (0.2)	*** (***)
Kentucky	87 (1.0)	264 (1.1)>	9 (1.0)	241 (2.6)	3 (0.4)	231 (4.6)	1 (0.2)	*** (***)	1 (0.2)	*** (***)
Louisiana	54 (1.7)	263 (1.7)	39 (1.5)	232 (2.2)	5 (0.5)	228 (3.5)	2 (0.4)	*** (***)	1 (0.2)	*** (***)
Maine[1]	94 (0.5)	279 (1.0)	0 (0.1)	*** (***)	2 (0.3)	*** (***)	1 (0.2)	*** (***)	3 (0.4)	261 (4.5)
Maryland	60 (1.8)	278 (1.5)	29 (1.8)	239 (2.0)	6 (0.6)	240 (3.3)	3 (0.5)	287 (4.7)	1 (0.2)	*** (***)
Massachusetts[1]	83 (1.1)	277 (1.1)	5 (1.0)	243 (5.0)	8 (1.5)	240 (3.4)	2 (0.4)	*** (***)	1 (0.2)	*** (***)
Michigan	73 (1.6)	276 (1.5)>	18 (1.9)	232 (1.8)	5 (0.8)	248 (4.0)	1 (0.3)	*** (***)	2 (0.3)	*** (***)
Minnesota	91 (1.0)	284 (1.0)»	2 (0.3)	*** (***)	3 (0.5)	253 (3.8)>	2 (0.3)	*** (***)	1 (0.4)	*** (***)
Mississippi[1]	49 (1.9)	262 (1.4)	44 (1.8)	230 (1.4)	6 (0.6)	223 (3.1)	0 (0.1)	*** (***)	1 (0.2)	*** (***)
Missouri[1]	82 (1.5)	275 (1.0)	12 (1.4)	241 (2.9)	3 (0.3)	251 (4.2)	1 (0.2)	*** (***)	2 (0.3)	*** (***)
Nebraska	87 (1.1)	281 (1.1)	5 (0.9)	236 (4.7)	6 (0.7)	254 (3.1)	1 (0.2)	*** (***)	2 (0.4)	*** (***)
New Hampshire	91 (1.6)	278 (0.9)>	1 (0.2)	*** (***)	3 (0.3)	258 (5.1)	1 (0.2)	*** (***)	1 (0.2)	*** (***)
New Jersey	61 (2.5)	283 (1.4)	17 (2.4)	242 (2.7)	14 (1.5)	247 (3.5)	6 (0.7)	297 (3.3)	1 (0.2)	*** (***)
New Mexico	44 (1.5)	272 (1.2)	2 (0.4)	*** (***)	49 (1.4)	248 (1.1)	1 (0.3)	*** (***)	4 (0.7)«	249 (3.0)>
New York	61 (2.7)	279 (1.1)>	17 (2.2)	232 (4.5)	14 (2.0)	243 (4.8)	4 (0.6)	281 (6.8)	1 (0.3)	*** (***)
North Carolina	68 (1.4)>	266 (1.0)>	27 (1.3)	238 (1.7)	3 (0.3)<	238 (4.7)>	1 (0.2)	*** (***)	2 (0.4)	*** (***)
North Dakota	93 (0.8)	284 (1.2)	0 (0.1)	*** (***)	3 (0.3)	*** (***)	1 (0.2)	*** (***)	3 (0.7)	261 (4.3)!»
Ohio	80 (1.9)	274 (1.4)>	14 (1.7)	234 (2.3)	4 (0.5)	245 (4.6)	1 (0.2)	*** (***)	2 (0.3)	*** (***)
Oklahoma	75 (1.6)	272 (1.0)	8 (1.1)	238 (3.0)	6 (0.6)	252 (3.2)	2 (0.3)	*** (***)	10 (1.0)	261 (3.2)
Pennsylvania	83 (1.4)	276 (1.1)>	11 (1.6)	237 (4.6)	3 (0.7)	246 (3.9)!>	1 (0.3)	*** (***)	1 (0.3)	*** (***)
Rhode Island	81 (0.7)	271 (0.9)»	6 (0.6)	240 (2.9)>	8 (0.4)	232 (2.7)	3 (0.4)	264 (3.4)	2 (0.3)	*** (***)
South Carolina[1]	58 (1.5)	273 (1.1)	35 (1.3)	241 (1.0)	6 (0.6)	233 (2.6)	1 (0.2)	*** (***)	1 (0.2)	*** (***)
Tennessee[1]	75 (2.0)	266 (1.1)	21 (2.1)	234 (2.4)	3 (0.3)	227 (4.8)	0 (0.1)	*** (***)	1 (0.2)	*** (***)
Texas	48 (1.9)	279 (1.6)>	12 (1.6)	243 (2.0)>	36 (2.0)	248 (1.2)	3 (0.4)	301 (4.9)	1 (0.3)	*** (***)
Utah[1]	90 (0.9)	276 (0.8)	1 (0.2)	*** (***)	7 (0.6)	253 (2.3)	2 (0.3)	*** (***)	2 (0.2)	*** (***)
Virginia	69 (1.9)	275 (1.1)	22 (1.6)	244 (1.9)	5 (0.6)	254 (4.0)	4 (0.5)	280 (4.0)<	1 (0.2)	*** (***)
West Virginia	91 (0.9)	260 (1.0)	4 (0.8)	243 (3.7)	3 (0.3)<	230 (4.9)	0 (0.1)	*** (***)	2 (0.3)	*** (***)
Wisconsin	86 (1.7)	282 (1.2)	7 (1.2)	246 (6.8)	4 (0.8)	246 (4.0)	1 (0.2)<	*** (***)	2 (0.6)	261 (6.0)!
Wyoming	86 (1.7)	277 (0.8)>	1 (0.2)	*** (***)	9 (0.6)	257 (2.1)	1 (0.2)	*** (***)	4 (1.6)	250 (2.4)!
TERRITORIES										
Guam	5 (0.5)<	266 (5.4)	1 (0.3)	*** (***)	15 (0.9)<	218 (2.8)	76 (1.1)>	236 (1.1)	1 (0.1)	*** (***)
Virgin Islands	1 (0.4)	*** (***)	77 (1.1)	224 (1.2)	21 (0.9)	213 (1.9)	0 (0.1)	*** (***)	0 (0.2)	*** (***)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.2 | **Average Mathematics Proficiency by Race/Ethnicity and Type of Community (continued)**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Advantaged Urban		Disadvantaged Urban		Extreme Rural		Other	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	9 (1.8)	240 (3.0)!	10 (1.5)	193 (2.9)	13 (2.4)	216 (3.6)	67 (3.2)	218 (1.0)
Northeast	20 (5.5)	243 (3.3)!	16 (5.5)	206 (3.6)!	4 (1.2)	*** (***)	60 (8.0)	220 (2.4)
Southeast	5 (3.0)	240 (6.4)!	13 (3.5)	190 (4.4)!	19 (6.9)	203 (6.1)!	63 (7.6)	212 (2.0)
Central	5 (2.1)	235(13.4)!	9 (1.9)	188 (4.0)!	16 (3.4)	228 (3.7)!	70 (4.1)	224 (1.5)
West	8 (3.7)	239 (9.1)!	5 (1.3)	180 (7.4)!	13 (4.7)	216 (3.5)!	74 (5.7)	217 (1.9)
STATES								
Alabama	11 (3.1)	231 (5.1)!	13 (3.2)	192 (2.9)!	14 (4.0)	204 (3.8)!	62 (5.6)	208 (2.1)
Arizona	13 (3.9)	230 (3.4)!	10 (3.0)	209 (5.0)!	8 (3.3)	206 (5.0)!	69 (5.5)	212 (2.0)
Arkansas	1 (1.2)	*** (***)	6 (1.5)	195 (2.7)!	25 (4.1)	209 (2.6)	68 (4.7)	210 (1.4)
California	12 (2.5)	232 (2.7)!	23 (3.7)	187 (3.4)	1 (0.3)	*** (***)	65 (4.6)	210 (2.1)
Colorado	18 (3.2)	233 (1.6)	13 (2.9)	203 (2.6)!	13 (2.7)	218 (2.2)!	57 (5.0)	219 (1.5)
Connecticut	19 (4.2)	238 (2.3)!	15 (3.0)	196 (3.8)!	0 (0.0)	*** (***)	66 (5.0)	231 (1.4)
Delaware	10 (0.2)	218 (4.1)	8 (0.2)	207 (4.9)	24 (0.1)	214 (1.0)	58 (0.3)	219 (1.1)
Dist. Columbia	20 (0.3)	212 (1.4)	60 (0.4)	185 (0.9)	0 (0.0)	*** (***)	20 (0.3)	195 (1.6)
Florida	18 (4.4)	231 (2.8)!	21 (3.9)	193 (2.9)	4 (1.3)	207 (6.2)!	57 (4.5)	214 (1.5)
Georgia	10 (3.4)	239 (2.3)!	15 (4.6)	195 (3.1)!	12 (3.6)	215 (2.7)!	63 (6.2)	214 (1.9)
Hawaii	12 (3.6)	227 (3.3)!	9 (1.8)	194 (3.1)!	5 (1.9)	207 (3.8)!	75 (4.3)	214 (1.6)
Idaho	9 (2.6)	235 (2.0)!	1 (0.9)	*** (***)	33 (4.9)	219 (1.2)	56 (5.5)	220 (1.5)
Indiana	8 (2.7)	235 (1.9)!	10 (2.8)	199 (3.4)!	15 (3.3)	223 (1.8)!	68 (4.9)	220 (1.3)
Iowa	7 (2.9)	241 (2.3)!	6 (2.5)	219 (4.6)!	41 (3.5)	229 (1.4)	46 (4.2)	229 (1.9)
Kentucky	6 (2.7)	233 (2.0)!	11 (2.7)	208 (4.1)!	24 (4.2)	215 (1.5)	60 (4.8)	212 (1.6)
Louisiana	5 (2.3)	226 (3.0)!	18 (2.5)	184 (3.9)	11 (2.7)	205 (4.4)!	65 (3.9)	205 (2.0)
Maine	2 (1.6)	*** (***)	2 (1.3)	*** (***)	19 (4.7)	231 (2.8)!	77 (4.9)	231 (1.4)
Maryland	20 (3.6)	231 (3.6)	16 (4.0)	191 (5.7)!	5 (2.1)	222 (3.2)!	59 (4.9)	216 (1.5)
Massachusetts	16 (3.4)	243 (3.0)!	14 (2.7)	200 (2.9)	1 (0.9)	*** (***)	68 (4.2)	229 (1.5)
Michigan	10 (3.0)	240 (3.3)!	15 (3.7)	190 (5.0)!	10 (3.6)	220 (3.3)!	65 (5.1)	224 (1.7)
Minnesota	12 (3.9)	237 (3.3)!	3 (2.2)	*** (***)	29 (3.8)	226 (1.4)	56 (5.4)	226 (1.6)
Mississippi	1 (1.1)	*** (***)	6 (1.9)	190 (3.2)!	11 (2.3)	204 (4.7)	82 (3.2)	200 (1.3)
Missouri	9 (3.0)	239 (4.0)!	11 (2.9)	192 (4.3)!	26 (3.9)	222 (1.7)	53 (5.3)	223 (1.6)
Nebraska	8 (2.7)	238 (2.1)!	6 (1.4)	205 (2.9)!	26 (3.9)	225 (2.8)	59 (4.8)	223 (1.8)
New Hampshire	8 (3.5)	235 (3.0)!	1 (1.3)	*** (***)	4 (1.8)	232 (4.3)!	86 (4.0)	229 (1.4)
New Jersey	30 (4.3)	242 (1.8)	17 (3.3)	196 (4.3)!	1 (1.0)	*** (***)	53 (5.0)	229 (1.7)
New Mexico	11 (5.7)	230 (2.5)!	9 (2.9)	198 (3.6)!	4 (2.0)	203 (6.5)!	77 (6.1)	210 (1.7)
New York	15 (3.7)	231 (2.7)!	24 (3.7)	199 (2.6)	2 (1.6)	*** (***)	58 (4.7)	222 (2.6)
North Carolina	5 (1.6)	233 (1.9)!	4 (1.9)	200 (6.0)!	19 (4.0)	208 (3.0)!	71 (4.6)	211 (1.4)
North Dakota	11 (3.1)	237 (2.6)!	2 (1.4)	*** (***)	43 (3.6)	226 (1.3)	44 (4.3)	226 (1.1)
Ohio	10 (2.6)	237 (2.3)!	18 (2.6)	197 (3.2)	17 (3.9)	216 (2.3)!	55 (4.8)	222 (1.6)
Oklahoma	9 (3.1)	230 (3.9)!	10 (2.6)	213 (3.8)!	21 (3.6)	220 (2.2)	60 (4.6)	219 (1.4)
Pennsylvania	15 (4.9)	237 (4.4)!	17 (3.4)	196 (3.7)	14 (3.8)	230 (1.5)!	54 (5.6)	226 (1.5)
Rhode Island	12 (4.0)	236 (3.0)!	24 (4.9)	192 (3.0)!	0 (0.0)	*** (***)	64 (5.7)	219 (1.9)
South Carolina	6 (2.2)	231 (3.3)!	6 (1.5)	195 (2.6)!	13 (3.1)	205 (2.9)!	74 (4.0)	212 (1.4)
Tennessee	6 (2.7)	228 (4.4)!	13 (3.6)	189 (3.4)!	10 (2.8)	206 (4.3)!	71 (4.6)	212 (1.6)
Texas	10 (3.2)	242 (3.1)!	21 (4.8)	208 (3.9)!	13 (3.3)	223 (2.7)!	56 (6.3)	214 (1.9)
Utah	20 (3.6)	233 (2.0)	3 (1.7)	208 (3.5)!	7 (2.6)	220 (3.2)!	70 (4.4)	222 (1.3)
Virginia	13 (3.1)	235 (3.5)!	14 (3.1)	200 (2.5)!	13 (2.7)	212 (2.3)!	59 (4.7)	220 (2.2)
West Virginia	2 (1.4)	*** (***)	8 (2.5)	209 (3.3)!	16 (3.6)	213 (2.2)!	75 (4.6)	214 (1.4)
Wisconsin	9 (2.6)	242 (4.1)!	7 (2.4)	206 (4.6)!	26 (5.0)	229 (1.8)	58 (5.3)	229 (1.4)
Wyoming	7 (2.1)	232 (3.7)!	4 (1.8)	214 (2.5)!	20 (3.4)	229 (2.1)	69 (4.5)	224 (1.3)
TERRITORY								
Guam	0 (0.0)	*** (***)	0 (0.0)	*** (***)	19 (0.1)	183 (2.3)	81 (0.1)	195 (1.0)

TABLE A.2 | **Average Mathematics Proficiency by Race/Ethnicity and Type of Community (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Advantaged Urban		Disadvantaged Urban		Extreme Rural		Other	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	8 (2.2)	285 (4.6)‼	9 (1.5)	239 (2.7)	10 (2.8)	267 (4.6)‼	72 (3.5)	268 (1.2)
Northeast	12 (6.5)	292 (6.7)‼	12 (3.7)	234 (2.3)‼	7 (4.8)	*** (***)	69 (8.2)	267 (2.9)
Southeast	5 (3.5)	272 (2.2)‼	9 (2.5)	238 (6.9)‼	16 (7.2)	255 (4.6)‼	69 (7.9)	260 (1.5)
Central	8 (2.4)	285 (7.0)‼	9 (3.0)	236 (5.6)‼	9 (6.0)	281 (4.3)‼	74 (6.9)	275 (1.9)
West	7 (4.0)	284(11.2)‼	9 (3.2)	246 (4.6)‼	8 (4.0)	264 (5.2)‼	76 (5.3)	268 (2.5)
STATES								
Alabama	4 (2.4)	261 (7.4)‼	16 (3.5)	237 (4.9)‼	15 (3.2)	254 (1.8)‼	65 (4.7)	254 (2.4)
Arizona	15 (5.3)	279 (3.8)‼	14 (3.1)	251 (4.0)‼	7 (2.2)	255 (8.7)‼	64 (5.8)	264 (1.7)
Arkansas	2 (1.4)	*** (***)	5 (1.9)	236 (6.9)‼	16 (3.9)	261 (2.3)‼	76 (4.4)	255 (1.3)
California	8 (3.2)	290 (6.5)‼	19 (3.2)	236 (3.5)	3 (1.9)	*** (***)	71 (5.1)	264 (1.9)>
Colorado	18 (3.5)	283 (2.0)	10 (2.3)	253 (2.8)‼	13 (2.9)	272 (2.9)‼	60 (4.9)	272 (1.6)>
Connecticut	10 (3.5)«	283 (4.9)‼	17 (3.3)	243 (3.5)	0 (0.0)	*** (***)	72 (4.4)>	279 (1.6)»
Delaware	0 (0.0)	*** (***)	0 (0.0)	*** (***)	11 (0.1)«	263 (2.1)	89 (0.1)»	262 (1.2)
Dist. Columbia	7 (0.3)«	252 (2.9)	67 (0.4)	225 (1.3)	0 (0.0)	*** (***)	25 (0.4)»	252 (2.1)»
Florida	7 (2.9)	271 (5.2)‼	17 (3.5)	249 (5.8)‼	6 (2.1)	255 (5.5)‼	69 (4.9)	261 (2.0)
Georgia	6 (1.9)	274 (5.8)‼	10 (2.9)	247 (3.7)‼	9 (2.2)	246 (1.4)‼	74 (4.0)	260 (1.6)
Hawaii	5 (0.1)«	255 (2.6)«	16 (0.4)	240 (2.1)	1 (0.0)	*** (***)	78 (0.4)»	259 (1.4)»
Idaho	4 (2.2)	288 (3.5)‼	5 (2.4)	279 (5.1)‼	29 (4.3)	274 (1.8)>	62 (5.0)	274 (0.7)
Indiana	5 (2.3)	286 (5.5)‼	11 (2.4)	244 (2.0)‼	13 (2.6)	269 (2.8)	71 (4.3)	273 (1.4)
Iowa	4 (2.3)	291 (7.2)‼	3 (1.0)	271 (4.0)‼	44 (5.4)	287 (1.5)»	49 (5.7)	280 (1.4)
Kentucky	3 (1.1)	286 (6.2)‼>	12 (3.3)	252 (3.4)‼	15 (3.7)<	262 (2.4)‼>	70 (5.1)>	262 (1.5)
Louisiana	2 (1.6)	*** (***)	19 (3.2)	227 (3.9)	7 (3.0)	254 (3.7)‼»	72 (4.3)	253 (1.9)
Maine	1 (1.5)	*** (***)	2 (1.6)	*** (***)	19 (4.1)	276 (1.8)‼	78 (4.5)	278 (1.3)
Maryland	21 (3.8)	283 (3.4)	13 (3.5)	240 (7.3)‼	3 (2.6)	*** (***)	63 (5.6)	266 (2.5)
Massachusetts	7 (2.3)	300 (4.9)‼	23 (3.5)	247 (3.0)	1 (1.3)	*** (***)	69 (4.3)	277 (1.8)
Michigan	7 (3.0)	290 (8.5)‼	19 (3.1)	237 (3.4)	14 (3.8)	273 (2.7)‼	60 (5.2)	270 (1.5)
Minnesota	7 (3.6)<	290 (6.0)‼	0 (0.0)	*** (***)	20 (4.2)	280 (2.1)‼	72 (5.2)>	282 (1.4)
Mississippi	3 (1.8)	*** (***)	6 (2.7)	240 (5.4)‼	12 (3.1)	245 (4.2)‼	79 (4.6)	245 (1.6)
Missouri	7 (2.8)	278 (3.2)‼	12 (2.4)	252 (5.1)‼	13 (3.6)	270 (2.5)‼	68 (4.8)	272 (1.3)
Nebraska	0 (0.0)	*** (***)	6 (0.9)	250 (4.1)	28 (4.3)	281 (2.4)	66 (4.5)>	276 (1.4)>
New Hampshire	4 (1.6)<	294 (2.9)‼>	0 (0.0)	*** (***)	5 (2.3)	281 (2.1)‼	92 (2.8)	277 (1.1)
New Jersey	8 (2.8)«	296 (3.4)‼	24 (3.3)	237 (3.3)	3 (2.3)	*** (***)	64 (4.7)	280 (1.5)»
New Mexico	5 (0.2)	282 (2.3)	6 (2.6)	251 (3.1)‼	6 (2.8)«	258 (7.3)‼	84 (3.8)>	259 (1.1)>
New York	11 (3.3)	292 (3.5)‼>	16 (5.1)	230 (4.8)‼	10 (3.5)	277 (2.4)‼	63 (6.7)	270 (2.8)
North Carolina	3 (1.0)	281(12.8)‼	5 (2.2)	243 (5.8)‼	12 (3.8)	251 (3.7)‼	80 (4.3)	258 (1.5)>
North Dakota	8 (1.8)	286 (2.0)‼	0 (0.0)	*** (***)	39 (4.1)	282 (1.8)	53 (3.9)	281 (1.4)
Ohio	6 (2.7)	296 (4.8)‼>	17 (3.2)	247 (3.0)	21 (5.5)	277 (2.7)‼>	56 (6.3)	269 (2.1)
Oklahoma	2 (1.8)	*** (***)	5 (2.5)	269 (2.7)‼»	19 (4.1)	265 (2.4)‼	74 (5.1)	269 (1.5)
Pennsylvania	4 (2.1)<	269 (5.5)‼	15 (3.5)	245 (5.1)‼	13 (3.7)	277 (4.0)‼	68 (5.0)	275 (1.3)»
Rhode Island	7 (0.1)«	285 (2.4)>	12 (0.1)<	242 (2.4)	0 (0.0)	*** (***)	81 (0.1)»	268 (0.9)»
South Carolina	3 (1.7)	276 (2.8)‼	6 (2.2)	246 (5.7)‼	4 (1.8)	270 (2.5)‼	87 (3.3)	259 (1.2)
Tennessee	5 (3.3)	279 (2.8)‼	7 (2.6)	231 (9.2)‼	6 (2.4)	259 (2.1)‼	82 (4.0)	259 (1.6)
Texas	10 (2.9)	291 (2.6)‼»	18 (3.9)	247 (2.2)‼	6 (2.6)	264 (6.5)‼	67 (5.5)	264 (1.8)>
Utah	13 (2.4)	283 (2.8)	5 (2.2)	268 (2.6)‼	10 (2.4)	270 (1.8)‼	72 (3.9)	273 (1.0)
Virginia	9 (2.4)<	284 (3.4)‼	13 (3.0)>	250 (3.8)‼	14 (4.3)	260 (4.5)‼	63 (5.4)	265 (1.6)
West Virginia	1 (0.9)	*** (***)	10 (1.9)	256 (1.8)	13 (3.4)	257 (2.6)‼	76 (3.7)	259 (1.2)
Wisconsin	11 (5.5)	291 (5.7)‼	5 (1.7)	240 (4.0)‼	25 (5.4)	282 (2.5)‼	59 (6.4)	277 (1.6)
Wyoming	0 (0.0)	*** (***)	10 (2.6)	273 (5.5)‼	13 (2.9)«	276 (2.5)‼	76 (3.8)	275 (0.9)
TERRITORIES								
Guam	0 (0.0)	*** (***)	0 (0.0)	*** (***)	11 (0.2)«	216 (3.6)«	89 (0.2)»	237 (1.2)»
Virgin Islands	0 (0.0)	*** (***)	0 (0.0)	*** (***)	27 (0.2)»	215 (2.4)	73 (0.2)«	218 (1.3)

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TABLE A.3 | **Demographic Characteristics of Students in the Top-Performing One-Third Schools in Average Mathematics Proficiency**

PUBLIC SCHOOLS	Grade 4 - 1992								
	Percentage of Students by Race/Ethnicity					Percentage of Students by Type of Community			
	White	Black	Hispanic	Asian / Pacific Islander	American Indian	Advantaged Urban	Disadvantaged Urban	Extreme Rural	Other
NATION	87 (1.5)	4 (0.9)!	4 (0.6)	3 (0.6)!	*** (***)	18 (4.0)!	*** (***)	14 (3.5)!	67 (4.9)
Northeast	88 (3.2)	*** (***)	*** (***)	*** (***)	*** (***)	31 (8.3)!	*** (***)	*** (***)	61(10.8)
Southeast	85 (6.3)!	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	19(11.7)!	63(15.7)!
Central	93 (1.6)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	21 (7.6)!	71 (7.1)
West	80 (3.0)	*** (***)	*** (***)	8 (2.2)!	*** (***)	18 (8.3)!	*** (***)	*** (***)	69(10.0)
STATES									
Alabama	79 (3.5)	12 (2.6)!	*** (***)	*** (***)	*** (***)	26 (7.5)!	*** (***)	*** (***)	65 (7.3)!
Arizona	78 (2.3)	*** (***)	14 (1.8)	*** (***)	*** (***)	30 (9.5)!	*** (***)	*** (***)	59(10.6)!
Arkansas	87 (1.3)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	29 (6.6)!	71 (6.6)
California	83 (3.3)	*** (***)	16 (2.2)!	14 (2.4)!	*** (***)	35 (6.6)!	*** (***)	*** (***)	58 (7.0)!
Colorado	82 (1.5)	*** (***)	12 (1.2)	*** (***)	*** (***)	38 (7.9)!	*** (***)	14 (5.3)!	49 (9.1)!
Connecticut	90 (1.5)	*** (***)	*** (***)	*** (***)	*** (***)	34 (8.7)!	*** (***)	*** (***)	65 (8.7)!
Delaware	68 (1.8)	22 (1.7)	*** (***)	*** (***)	*** (***)	16 (0.3)	*** (***)	10 (0.1)	74 (0.4)
Dist. Columbia	15 (0.8)	73 (1.2)	*** (***)	*** (***)	*** (***)	55 (0.6)	30 (0.6)	*** (***)	16 (0.3)
Florida	76 (2.8)	8 (1.3)!	12 (2.4)!	*** (***)	*** (***)	40 (9.2)!	*** (***)	*** (***)	58 (9.3)
Georgia	80 (3.2)	11 (2.6)!	*** (***)	*** (***)	*** (***)	32 (9.4)!	*** (***)	*** (***)	61(10.0)
Hawaii	25 (3.1)	*** (***)	8 (0.8)	61 (3.8)	*** (***)	22 (8.0)!	*** (***)	*** (***)	77 (8.0)
Idaho	89 (1.4)	*** (***)	7 (1.0)	*** (***)	*** (***)	26 (7.2)!	*** (***)	14 (5.6)!	60 (9.6)!
Indiana	91 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	23 (7.9)!	*** (***)	10 (5.2)!	67 (8.8)!
Iowa	90 (1.2)	*** (***)	*** (***)	*** (***)	*** (***)	16 (7.2)!	*** (***)	33 (6.5)!	51 (8.7)!
Kentucky	84 (2.6)	9 (2.1)!	*** (***)	*** (***)	*** (***)	16 (6.7)!	*** (***)	26 (8.2)!	54(10.1)
Louisiana	73 (2.5)	20 (2.5)	*** (***)	*** (***)	*** (***)	15 (6.0)!	*** (***)	13 (4.4)!	69 (7.1)
Maine	93 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	22 (8.7)!	76 (8.9)!
Maryland	77 (3.0)	11 (2.0)!	*** (***)	*** (***)	*** (***)	44 (7.6)	*** (***)	*** (***)	51 (8.5)!
Massachusetts	90 (1.1)	*** (***)	*** (***)	*** (***)	*** (***)	34 (7.0)!	*** (***)	*** (***)	66 (7.0)
Michigan	85 (1.8)	*** (***)	*** (***)	*** (***)	*** (***)	23 (8.0)!	*** (***)	*** (***)	69 (8.3)
Minnesota	90 (1.2)	*** (***)	*** (***)	*** (***)	*** (***)	31(11.3)!	*** (***)	19 (7.9)!	50(11.7)!
Mississippi	73 (2.7)	21 (2.3)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	12 (3.9)!	83 (5.5)
Missouri	85 (1.8)	7 (1.1)	*** (***)	*** (***)	*** (***)	22 (7.5)!	*** (***)	15 (6.3)!	61 (9.5)!
Nebraska	91 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	25 (7.7)!	*** (***)	26 (8.4)!	49 (9.3)!
New Hampshire	92 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	13 (7.0)!	*** (***)	*** (***)	79 (7.9)
New Jersey	83 (1.9)	*** (***)	*** (***)	*** (***)	*** (***)	65 (8.1)	*** (***)	*** (***)	35 (8.1)!
New Mexico	66 (3.1)	*** (***)	27 (2.8)	*** (***)	*** (***)	29(14.3)!	*** (***)	*** (***)	71(14.3)!
New York	83 (2.5)	*** (***)	*** (***)	*** (***)	*** (***)	31 (9.6)!	*** (***)	*** (***)	69 (9.6)!
North Carolina	73 (2.7)	17 (2.0)	*** (***)	*** (***)	*** (***)	15 (4.9)!	*** (***)	20 (7.3)!	63 (8.0)
North Dakota	93 (1.1)	*** (***)	*** (***)	*** (***)	*** (***)	29 (8.5)!	*** (***)	33 (6.9)!	38 (9.2)!
Ohio	88 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	24 (6.5)!	*** (***)	9 (5.2)!	65 (7.9)
Oklahoma	81 (2.3)	*** (***)	*** (***)	*** (***)	*** (***)	15 (6.2)!	*** (***)	22 (6.5)!	60 (8.4)!
Pennsylvania	90 (1.3)	*** (***)	*** (***)	*** (***)	*** (***)	29 (8.3)!	*** (***)	11 (5.9)!	60 (9.0)!
Rhode Island	92 (1.0)	*** (***)	*** (***)	*** (***)	*** (***)	30(10.2)!	*** (***)	*** (***)	70(10.2)!
South Carolina	74 (2.5)	19 (2.4)	*** (***)	*** (***)	*** (***)	17 (6.3)!	*** (***)	*** (***)	81 (6.5)
Tennessee	81 (2.2)	12 (2.0)!	*** (***)	*** (***)	*** (***)	16 (7.3)!	*** (***)	*** (***)	78 (7.9)
Texas	71 (3.9)	*** (***)	19 (3.6)!	*** (***)	*** (***)	27 (8.6)!	*** (***)	24 (8.0)!	37 (9.2)!
Utah	91 (1.3)	*** (***)	*** (***)	*** (***)	*** (***)	43 (8.0)!	*** (***)	*** (***)	52 (8.3)!
Virginia	83 (2.0)	7 (1.4)!	*** (***)	*** (***)	*** (***)	29 (9.2)!	*** (***)	*** (***)	68 (9.4)!
West Virginia	90 (1.5)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	10 (5.4)!	78 (7.8)
Wisconsin	88 (1.6)	*** (***)	*** (***)	*** (***)	*** (***)	16 (7.0)!	*** (***)	20 (6.7)!	64 (9.2)!
Wyoming	86 (1.9)	*** (***)	10 (1.5)!	*** (***)	*** (***)	13 (6.5)!	*** (***)	31 (8.8)!	56 (9.0)!
TERRITORY									
Guam	16 (1.2)	*** (***)	15 (1.1)	62 (1.5)	*** (***)	*** (***)	*** (***)	*** (***)	100 (0.0)

The standard errors of the estimated percentages appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***The number of schools or students was considered insufficient for this analysis. Underlying subgroup population proportions provided in previous tables should be considered in interpreting these results. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.3 | **Demographic Characteristics of Students in the Top-Performing One-Third Schools in Average Mathematics Proficiency (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992								
	Percentage of Students by Race/Ethnicity					Percentage of Students by Type of Community			
	White	Black	Hispanic	Asian / Pacific Islander	American Indian	Advantaged Urban	Disadvantaged Urban	Extreme Rural	Other
NATION	85 (1.4)	5 (0.8)!	6 (0.8)	3 (0.7)!	*** (***)	13 (4.3)!	*** (***)	12 (4.8)!	73 (6.1)
Northeast	87 (3.0)	*** (***)	*** (***)	*** (***)	*** (***)	27(14.6)!	*** (***)	*** (***)	58(13.7)!
Southeast	78 (5.0)!	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	87 (7.9)!
Central	90 (1.8)	*** (***)	*** (***)	*** (***)	*** (***)	11 (3.4)!	*** (***)	16(10.1)!	73(10.5)!
West	79 (3.5)!	*** (***)	10 (2.1)!	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	82 (9.2)!
STATES									
Alabama	83 (2.1)	11 (1.9)!	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	12 (5.6)!	81 (7.4)
Arizona	79 (3.3)	*** (***)	14 (2.9)!	*** (***)	*** (***)	36(11.9)!	*** (***)	*** (***)	59(11.7)!
Arkansas	91 (1.5)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	18 (8.2)!	75 (8.2)
California	63 (3.1)	*** (***)	17 (2.1)!	15 (2.1)	*** (***)	23 (9.3)!	*** (***)	*** (***)	71(10.1)!
Colorado	88 (1.6)	*** (***)	8 (1.1)!	*** (***)	*** (***)	38 (8.2)!	*** (***)	10 (5.3)!	51 (8.6)!
Connecticut	91 (1.1)	*** (***)	*** (***)	*** (***)	*** (***)	13 (6.7)!	*** (***)	*** (***)	87 (6.7)
Delaware	68 (1.4)	22 (2.1)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	15 (0.2)	85 (0.2)
Dist. Columbia	*** (***)	76 (1.6)	*** (***)	*** (***)	*** (***)	23 (0.8)	15 (0.7)	*** (***)	62 (0.8)
Florida	74 (3.2)	14 (2.4)!	8 (1.1)	*** (***)	*** (***)	13 (6.1)!	*** (***)	*** (***)	74 (8.8)
Georgia	78 (4.1)	16 (3.1)!	*** (***)	*** (***)	*** (***)	13 (3.8)!	*** (***)	*** (***)	87 (3.8)
Hawaii	20 (1.5)	*** (***)	8 (0.6)	68 (1.9)	*** (***)	*** (***)	*** (***)	*** (***)	98 (0.2)
Idaho	93 (0.9)	*** (***)	*** (***)	*** (***)	*** (***)	11 (6.1)!	*** (***)	25 (7.6)!	57 (7.9)
Indiana	92 (1.8)	*** (***)	*** (***)	*** (***)	*** (***)	16 (6.8)!	*** (***)	*** (***)	77 (8.1)!
Iowa	94 (0.8)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	61 (9.5)!	30(10.0)!
Kentucky	88 (1.7)	7 (1.5)!	*** (***)	*** (***)	*** (***)	9 (3.6)!	*** (***)	9 (5.2)!	76 (7.5)
Louisiana	76 (2.6)	19 (2.2)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	85 (6.3)
Maine	96 (0.9)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	79 (8.1)
Maryland	81 (2.3)	9 (1.7)!	*** (***)	*** (***)	*** (***)	46 (8.7)!	*** (***)	*** (***)	47(10.4)!
Massachusetts	93 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	16 (5.8)!	*** (***)	*** (***)	84 (5.8)
Michigan	92 (1.2)	*** (***)	*** (***)	*** (***)	*** (***)	16 (7.6)!	*** (***)	16 (7.2)!	68 (9.8)!
Minnesota	94 (1.0)	*** (***)	*** (***)	*** (***)	*** (***)	14 (7.4)!	*** (***)	*** (***)	77 (8.8)!
Mississippi	72 (3.0)	24 (3.0)!	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	12 (6.1)!	78 (8.2)
Missouri	88 (1.9)	*** (***)	*** (***)	*** (***)	*** (***)	14 (6.9)!	*** (***)	8 (5.0)!	71 (8.4)!
Nebraska	94 (1.3)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	39(10.3)!	61(10.3)!
New Hampshire	94 (0.9)	*** (***)	*** (***)	*** (***)	*** (***)	15 (6.5)!	*** (***)	*** (***)	82 (7.1)!
New Jersey	82 (2.5)	*** (***)	*** (***)	11 (1.8)	*** (***)	24 (8.1)!	*** (***)	*** (***)	76 (8.1)
New Mexico	60 (2.2)	*** (***)	34 (2.2)	*** (***)	*** (***)	17 (2.7)	*** (***)	*** (***)	78 (4.6)
New York	86 (2.3)	*** (***)	*** (***)	*** (***)	*** (***)	32 (9.1)!	*** (***)	15 (7.6)!	53(10.7)!
North Carolina	78 (2.8)	18 (2.7)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	82 (5.8)
North Dakota	95 (1.1)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	61(11.4)!	39(11.4)!
Ohio	92 (1.1)	*** (***)	*** (***)	*** (***)	*** (***)	19 (7.9)!	*** (***)	22(12.9)!	59(12.7)!
Oklahoma	84 (2.1)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	91 (5.7)
Pennsylvania	91 (2.2)	*** (***)	*** (***)	*** (***)	*** (***)	10 (5.3)!	*** (***)	15 (6.6)!	75 (8.1)
Rhode Island	93 (0.8)	*** (***)	*** (***)	*** (***)	*** (***)	23 (0.2)	*** (***)	*** (***)	77 (0.2)
South Carolina	77 (1.8)	19 (1.8)	*** (***)	*** (***)	*** (***)	9 (5.2)!	*** (***)	*** (***)	81 (7.3)
Tennessee	87 (2.5)	10 (2.2)!	*** (***)	*** (***)	*** (***)	15 (9.2)!	*** (***)	*** (***)	82 (9.2)
Texas	68 (2.9)	9 (2.0)!	16 (2.0)	*** (***)	*** (***)	27 (7.3)!	*** (***)	*** (***)	67 (7.9)
Utah	92 (1.2)	*** (***)	*** (***)	*** (***)	*** (***)	37 (6.1)	*** (***)	*** (***)	60 (6.3)
Virginia	77 (2.8)	10 (1.6)!	*** (***)	*** (***)	*** (***)	30 (9.9)!	*** (***)	*** (***)	65(10.4)!
West Virginia	93 (1.2)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	89 (5.8)
Wisconsin	92 (2.1)	*** (***)	*** (***)	*** (***)	*** (***)	25(13.4)!	*** (***)	28(13.3)!	47(13.6)!
Wyoming	91 (1.2)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	16 (5.1)!	19 (4.9)!	65 (6.1)
TERRITORIES									
Guam	*** (***)	*** (***)	*** (***)	86 (3.6)	*** (***)	*** (***)	*** (***)	*** (***)	100 (0.0)
Virgin Islands	*** (***)	83 (2.4)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)

TABLE A.4 | **Demographic Characteristics of Students in the Bottom-Performing One-Third Schools in Average Mathematics Proficiency**

PUBLIC SCHOOLS	Grade 4 - 1992								
	Percentage of Students by Race/Ethnicity					Percentage of Students by Type of Community			
	White	Black	Hispanic	Asian / Pacific Islander	American Indian	Advantaged Urban	Disadvantaged Urban	Extreme Rural	Other
NATION	32 (2.4)	45 (2.6)	20 (1.4)	*** (***)	*** (***)	*** (***)	35 (4.7)	13 (6.4)!	51 (6.7)
Northeast	26 (5.2)	49 (6.1)!	21 (4.1)!	*** (***)	*** (***)	*** (***)	31 (9.2)!	*** (***)	69 (9.2)!
Southeast	42 (5.9)	48 (6.6)!	8 (1.7)	*** (***)	*** (***)	*** (***)	31 (8.7)!	29(13.3)!	40(12.4)!
Central	*** (***)	61 (7.4)!	16 (4.5)!	*** (***)	*** (***)	*** (***)	75 (9.6)!	*** (***)	17(10.4)!
West	26 (3.0)	29 (5.9)!	40 (4.6)	*** (***)	*** (***)	*** (***)	25 (7.3)!	*** (***)	71 (8.7)!
STATES									
Alabama	29 (5.0)	66 (4.7)	*** (***)	*** (***)	*** (***)	*** (***)	30 (7.7)!	*** (***)	63 (8.4)!
Arizona	28 (3.7)	*** (***)	45 (3.6)	*** (***)	20 (4.2)!	*** (***)	10 (4.4)!	12 (6.8)!	78 (7.8)
Arkansas	43 (3.4)	46 (3.3)	8 (1.2)	*** (***)	*** (***)	*** (***)	17 (4.9)!	29 (8.3)!	54 (9.5)!
California	18 (2.4)	12 (1.4)	60 (2.7)	8 (1.4)	*** (***)	*** (***)	57 (9.1)	*** (***)	43 (9.2)!
Colorado	47 (3.1)	9 (2.4)!	37 (3.1)	*** (***)	*** (***)	*** (***)	30 (6.8)!	16 (5.5)!	54 (7.3)
Connecticut	41 (4.1)	26 (3.2)	31 (3.4)	*** (***)	*** (***)	*** (***)	57 (9.0)!	*** (***)	37 (8.7)!
Delaware	63 (2.4)	28 (1.9)	9 (0.7)	*** (***)	*** (***)	*** (***)	20 (0.4)	27 (0.3)	40 (0.6)
Dist. Columbia	*** (***)	86 (0.7)	11 (0.6)	*** (***)	*** (***)	*** (***)	84 (0.3)	*** (***)	16 (0.3)
Florida	32 (4.4)	41 (4.5)	24 (2.6)	*** (***)	*** (***)	*** (***)	51 (8.3)	8 (2.7)!	41 (8.4)!
Georgia	28 (2.7)	63 (2.8)	8 (1.2)	*** (***)	*** (***)	*** (***)	37(11.0)!	*** (***)	56(11.6)!
Hawaii	16 (2.8)	*** (***)	14 (1.6)	64 (3.5)	*** (***)	*** (***)	21 (5.5)!	8 (4.8)!	70 (7.1)!
Idaho	77 (2.3)	*** (***)	17 (1.9)	*** (***)	*** (***)	*** (***)	*** (***)	41 (9.6)!	59 (9.6)!
Indiana	68 (4.0)	23 (4.2)!	*** (***)	*** (***)	*** (***)	*** (***)	29 (7.4)!	13 (4.2)!	58 (7.9)!
Iowa	88 (1.7)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	18 (7.1)!	39 (8.0)!	42 (8.1)!
Kentucky	82 (2.9)	11 (2.8)!	*** (***)	*** (***)	*** (***)	*** (***)	19 (5.8)!	22 (5.5)!	59 (7.1)
Louisiana	21 (3.4)	74 (3.6)	*** (***)	*** (***)	*** (***)	*** (***)	36 (6.4)	9 (5.3)!	55 (8.1)!
Maine	90 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	23 (9.3)!	68(10.0)!
Maryland	29 (3.4)	60 (3.5)	7 (1.2)!	*** (***)	*** (***)	*** (***)	34 (9.0)!	*** (***)	62 (9.2)
Massachusetts	56 (3.7)	20 (2.1)	16 (1.9)	*** (***)	*** (***)	*** (***)	52 (8.9)	*** (***)	42 (9.2)!
Michigan	48 (5.3)	35 (5.3)	12 (1.9)	*** (***)	*** (***)	*** (***)	46 (9.8)!	*** (***)	44 (9.6)!
Minnesota	79 (2.8)	*** (***)	11 (1.6)	*** (***)	*** (***)	*** (***)	*** (***)	32 (8.8)!	60 (9.9)!
Mississippi	11 (2.5)	79 (2.8)	9 (2.1)!	*** (***)	*** (***)	*** (***)	15 (4.9)!	*** (***)	81 (5.4)
Missouri	57 (4.9)	33 (5.0)	*** (***)	*** (***)	*** (***)	*** (***)	31 (7.9)!	19 (6.8)!	47 (8.7)!
Nebraska	71 (3.0)	15 (2.2)	10 (2.4)!	*** (***)	*** (***)	*** (***)	15 (5.4)!	20 (6.8)!	64 (8.4)!
New Hampshire	89 (1.0)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	91 (4.6)
New Jersey	29 (5.0)	36 (3.6)	30 (3.8)	*** (***)	*** (***)	*** (***)	50 (9.3)!	*** (***)	50 (9.3)!
New Mexico	26 (2.8)	*** (***)	67 (3.4)	*** (***)	*** (***)	*** (***)	14 (6.7)!	*** (***)	81 (7.1)
New York	26 (4.8)	29 (4.2)	42 (3.9)	*** (***)	*** (***)	*** (***)	56(10.3)!	*** (***)	44(10.3)!
North Carolina	44 (3.0)	42 (3.3)	8 (1.6)!	*** (***)	*** (***)	*** (***)	10 (4.9)!	21 (7.4)!	69 (8.5)
North Dakota	87 (2.5)	*** (***)	*** (***)	*** (***)	8 (2.2)!	*** (***)	*** (***)	47 (6.8)!	46 (7.2)
Ohio	64 (3.8)	24 (3.1)	8 (1.4)!	*** (***)	*** (***)	*** (***)	51 (6.6)	11 (6.7)!	37 (8.7)!
Oklahoma	57 (3.4)	20 (3.5)	*** (***)	*** (***)	13 (1.8)	*** (***)	21 (5.7)!	17 (6.6)!	62 (8.3)!
Pennsylvania	50 (4.9)	32 (4.7)	14 (2.4)	*** (***)	*** (***)	*** (***)	48 (8.9)	*** (***)	48 (8.4)!
Rhode Island	52 (4.5)	14 (1.7)	23 (2.7)	*** (***)	*** (***)	*** (***)	67 (8.1)!	*** (***)	33 (8.1)!
South Carolina	27 (3.9)	64 (3.9)	*** (***)	*** (***)	*** (***)	*** (***)	18 (5.3)!	12 (5.3)!	70 (6.9)
Tennessee	45 (4.9)	45 (4.4)	7 (1.9)!	*** (***)	*** (***)	*** (***)	39 (9.4)!	13 (5.9)!	48(10.0)!
Texas	29 (4.2)	24 (4.7)!	43 (5.7)	*** (***)	*** (***)	*** (***)	34 (8.8)!	*** (***)	60 (9.3)!
Utah	78 (2.1)	*** (***)	16 (1.8)	*** (***)	*** (***)	*** (***)	11 (5.4)!	8 (4.9)!	77 (8.2)!
Virginia	51 (3.0)	41 (3.1)	*** (***)	*** (***)	*** (***)	*** (***)	31 (6.5)!	19 (4.2)!	50 (7.5)!
West Virginia	91 (1.7)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	12 (4.6)!	14 (5.8)!	74 (7.6)
Wisconsin	67 (4.0)	13 (2.8)!	9 (2.2)!	*** (***)	*** (***)	*** (***)	22 (7.3)!	23 (8.1)!	55 (8.7)!
Wyoming	77 (3.1)	*** (***)	14 (1.7)	*** (***)	8 (3.1)!	*** (***)	12 (5.1)!	13 (4.8)!	72 (7.3)!
TERRITORY									
Guam	*** (***)	*** (***)	24 (1.7)	62 (1.6)	*** (***)	*** (***)	*** (***)	50 (0.5)	50 (0.5)

The standard errors of the estimated percentages appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***The number of schools or students was considered insufficient for this analysis. Underlying subgroup population proportions provided in previous tables should be considered in interpreting these results. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.4 | **Demographic Characteristics of Students in the Bottom-Performing One-Third Schools in Average Mathematics Proficiency (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992								
	Percentage of Students by Race/Ethnicity					Percentage of Students by Type of Community			
	White	Black	Hispanic	Asian / Pacific Islander	American Indian	Advantaged Urban	Disadvantaged Urban	Extreme Rural	Other
NATION	31 (3.9)	46 (3.2)	20 (1.9)	*** (***)	*** (***)	*** (***)	32 (5.8)	7 (4.4)!	61 (7.0)
Northeast	27 (4.8)	48 (4.7)	22 (4.1)!	*** (***)	*** (***)	*** (***)	42(11.7)!	*** (***)	58(11.7)!
Southeast	43 (7.7)	49 (8.2)	*** (***)	*** (***)	*** (***)	*** (***)	18 (7.8)!	16(11.3)!	65(13.5)!
Central	20 (4.6)	69 (4.9)!	*** (***)	*** (***)	*** (***)	*** (***)	51(15.4)!	*** (***)	49(15.4)!
West	22 (7.9)!	23 (5.0)!	50 (9.3)!	*** (***)	*** (***)	*** (***)	32(11.6)!	*** (***)	65(11.6)!
STATES									
Alabama	34 (5.1)	58 (4.5)	7 (1.4)!	*** (***)	*** (***)	*** (***)	33 (9.2)!	*** (***)	65 (9.5)
Arizona	35 (4.4)	*** (***)	48 (4.6)	*** (***)	10 (3.9)!	*** (***)	30 (7.2)!	*** (***)	63 (8.3)
Arkansas	48 (3.1)	43 (3.0)	*** (***)	*** (***)	*** (***)	*** (***)	13 (4.2)!	*** (***)	81 (5.3)
California	18 (3.6)	12 (3.7)!	61 (4.5)	8 (1.7)!	*** (***)	*** (***)	53 (9.1)!	*** (***)	47 (9.1)!
Colorado	57 (2.8)	9 (1.9)!	29 (2.6)	*** (***)	*** (***)	*** (***)	24 (6.3)!	*** (***)	69 (6.6)
Connecticut	46 (3.6)	26 (2.7)	25 (2.3)	*** (***)	*** (***)	*** (***)	44 (7.5)	*** (***)	50 (7.6)!
Delaware	63 (1.7)	28 (1.9)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	5 (0.2)	95 (0.2)
Dist. Columbia	*** (***)	90 (1.3)	*** (***)	*** (***)	*** (***)	*** (***)	100 (0.0)	*** (***)	*** (***)
Florida	32 (3.9)	38 (4.6)	28 (4.9)!	*** (***)	*** (***)	*** (***)	28 (7.6)!	11 (3.3)!	61 (6.4)!
Georgia	39 (3.8)	55 (3.9)	*** (***)	*** (***)	*** (***)	*** (***)	15 (3.6)!	21 (6.5)!	61 (7.4)
Hawaii	12 (1.4)	*** (***)	13 (1.4)	72 (2.0)	*** (***)	*** (***)	50 (0.8)	*** (***)	49 (0.8)
Idaho	82 (1.5)	*** (***)	12 (1.3)	*** (***)	*** (***)	*** (***)	*** (***)	23 (7.5)!	69 (8.2)
Indiana	70 (3.5)	20 (3.1)	7 (1.6)!	*** (***)	*** (***)	*** (***)	36 (8.2)!	12 (5.8)!	52 (9.2)!
Iowa	90 (1.4)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	28 (9.7)!	64 (9.7)!
Kentucky	82 (2.1)	13 (2.2)!	*** (***)	*** (***)	*** (***)	*** (***)	24 (7.2)!	*** (***)	69 (7.8)
Louisiana	25 (3.2)	66 (3.0)	*** (***)	*** (***)	*** (***)	*** (***)	49 (7.8)	*** (***)	51 (7.8)!
Maine	93 (0.8)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	12 (3.2)!	88 (3.2)
Maryland	30 (4.8)	61 (4.8)	*** (***)	*** (***)	*** (***)	*** (***)	34 (9.9)!	*** (***)	61(10.3)!
Massachusetts	65 (3.3)	13 (3.2)!	20 (4.3)!	*** (***)	*** (***)	*** (***)	66(10.0)	*** (***)	34(10.0)!
Michigan	40 (5.5)	50 (6.0)	8 (2.2)!	*** (***)	*** (***)	*** (***)	52 (8.0)	*** (***)	35 (7.4)!
Minnesota	88 (2.1)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	22 (9.1)!	78 (9.1)!
Mississippi	18 (3.3)	71 (3.4)	10 (1.1)	*** (***)	*** (***)	*** (***)	13 (6.9)!	9 (5.3)!	77 (8.6)
Missouri	71 (4.4)	23 (4.1)!	*** (***)	*** (***)	*** (***)	*** (***)	24 (5.5)!	18 (6.5)!	56 (8.0)!
Nebraska	78 (2.4)	10 (2.1)!	8 (1.3)!	*** (***)	*** (***)	*** (***)	13 (2.6)	17 (6.4)!	70 (6.7)
New Hampshire	93 (0.8)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	100 (0.0)
New Jersey	27 (6.5)	39 (6.4)	30 (4.3)	*** (***)	*** (***)	*** (***)	69 (7.6)	*** (***)	31 (7.6)!
New Mexico	27 (2.3)	*** (***)	68 (2.4)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	86 (8.3)
New York	32 (5.9)	37 (5.4)	26 (4.8)!	*** (***)	*** (***)	*** (***)	39(11.8)!	*** (***)	57(12.0)!
North Carolina	52 (3.9)	42 (3.5)	*** (***)	*** (***)	*** (***)	*** (***)	10 (4.8)!	16 (6.5)!	75 (7.9)!
North Dakota	91 (1.7)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	30 (6.1)!	70 (6.1)
Ohio	56 (4.3)	35 (4.2)	*** (***)	*** (***)	*** (***)	*** (***)	45 (8.9)!	*** (***)	55 (8.9)!
Oklahoma	65 (2.9)	14 (3.1)!	*** (***)	*** (***)	11 (2.0)!	*** (***)	*** (***)	28 (9.3)!	72 (9.3)!
Pennsylvania	66 (4.4)	25 (4.4)	*** (***)	*** (***)	*** (***)	*** (***)	50 (9.6)!	12 (7.0)!	38 (8.2)!
Rhode Island	64 (1.5)	12 (1.5)	17 (1.1)	*** (***)	*** (***)	*** (***)	31 (0.3)	*** (***)	69 (0.3)
South Carolina	35 (3.1)	56 (2.9)	8 (0.9)	*** (***)	*** (***)	*** (***)	15 (5.1)!	*** (***)	85 (5.1)
Tennessee	55 (5.0)	40 (5.1)	*** (***)	*** (***)	*** (***)	*** (***)	18 (6.0)!	*** (***)	78 (7.1)
Texas	22 (3.6)	17 (4.1)!	60 (4.8)	*** (***)	*** (***)	*** (***)	36 (9.9)!	*** (***)	60(10.1)!
Utah	86 (2.0)	*** (***)	8 (1.3)!	*** (***)	*** (***)	*** (***)	10 (5.0)!	12 (5.5)!	75 (7.4)
Virginia	54 (3.4)	38 (3.2)	*** (***)	*** (***)	*** (***)	*** (***)	25 (5.9)!	23 (7.1)!	52 (8.2)
West Virginia	88 (2.2)	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	15 (5.2)!	15 (6.3)!	69 (7.4)
Wisconsin	71 (4.7)	15 (3.4)!	8 (2.3)!	*** (***)	*** (***)	*** (***)	17 (5.8)!	11 (5.8)!	68 (8.2)
Wyoming	78 (5.5)	*** (***)	12 (1.3)	*** (***)	*** (***)	*** (***)	26 (7.5)!	*** (***)	64 (9.0)!
TERRITORIES									
Guam	*** (***)	*** (***)	18 (1.1)	76 (1.3)	*** (***)	*** (***)	*** (***)	27 (0.5)	73 (0.5)
Virgin Islands	*** (***)	70 (1.4)	28 (1.3)	*** (***)	*** (***)	*** (***)	*** (***)	36 (0.2)	64 (0.2)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

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TABLE A.5 | **Schools' Reports on the Percentage of Students Receiving Subsidized School Lunches**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Less than 25 Percent	26 to 50 Percent	51 to 75 Percent	More than 75 Percent
NATION	46 (3.6)	30 (3.1)	11 (1.9)	13 (1.7)
Northeast	58 (7.6)	17 (5.4)	10 (2.9)	16 (5.4)
Southeast	23 (4.0)	40 (4.6)	18 (4.6)	19 (4.4)
Central	58 (9.4)	30 (7.5)	7 (3.9)	4 (1.6)
West	47 (5.9)	29 (5.8)	11 (3.5)	13 (3.0)
STATES				
Alabama	33 (4.6)	35 (4.9)	13 (3.1)	19 (3.0)
Arizona	40 (4.8)	31 (4.6)	17 (3.7)	12 (2.8)
Arkansas	23 (4.3)	45 (4.9)	21 (3.9)	11 (2.3)
California	42 (5.0)	28 (5.0)	12 (3.0)	18 (2.7)
Colorado	61 (3.7)	20 (3.4)	13 (2.4)	6 (2.3)
Connecticut	72 (3.2)	14 (3.4)	6 (2.3)	9 (2.2)
Delaware	50 (0.3)	42 (0.3)	6 (0.1)	2 (0.1)
Dist. Columbia	15 (0.3)	15 (0.2)	15 (0.2)	55 (0.3)
Florida	37 (5.1)	31 (4.7)	18 (3.1)	15 (3.3)
Georgia	36 (4.5)	25 (4.6)	22 (4.4)	17 (3.2)
Hawaii	43 (4.8)	33 (5.0)	20 (3.8)	4 (1.9)
Idaho	39 (5.2)	46 (5.1)	11 (3.1)	5 (1.9)
Indiana	66 (4.8)	18 (3.3)	6 (2.5)	9 (2.8)
Iowa	69 (4.1)	21 (3.8)	5 (1.6)	5 (1.9)
Kentucky	29 (4.5)	35 (5.1)	26 (3.8)	10 (2.5)
Louisiana	15 (3.5)	19 (4.2)	32 (4.5)	34 (4.6)
Maine	40 (4.6)	41 (5.4)	12 (3.9)	8 (3.1)
Maryland	65 (3.6)	18 (2.9)	10 (2.7)	8 (2.6)
Massachusetts	70 (3.5)	10 (3.1)	9 (2.3)	11 (2.8)
Michigan	58 (4.1)	23 (4.3)	9 (2.9)	10 (2.1)
Minnesota	66 (4.2)	21 (4.1)	8 (2.4)	5 (2.6)
Mississippi	5 (2.2)	28 (4.6)	19 (4.0)	48 (4.2)
Missouri	53 (4.7)	26 (4.2)	10 (3.7)	11 (1.9)
Nebraska	59 (4.5)	25 (4.3)	9 (2.5)	7 (2.4)
New Hampshire	79 (3.9)	19 (3.8)	1 (0.6)	2 (1.3)
New Jersey	71 (2.8)	7 (2.8)	6 (2.0)	15 (3.0)
New Mexico	31 (5.2)	23 (4.6)	24 (4.6)	22 (4.0)
New York	47 (4.6)	19 (4.2)	15 (3.9)	19 (3.0)
North Carolina	39 (4.3)	32 (4.0)	22 (3.4)	7 (2.2)
North Dakota	56 (5.0)	31 (4.0)	3 (1.6)	9 (2.6)
Ohio	49 (4.1)	30 (4.5)	10 (2.8)	11 (2.6)
Oklahoma	35 (4.5)	32 (4.8)	22 (4.0)	11 (2.8)
Pennsylvania	53 (4.5)	30 (4.2)	5 (2.0)	12 (2.4)
Rhode Island	58 (4.5)	14 (4.1)	14 (3.5)	14 (3.2)
South Carolina	35 (4.9)	31 (4.3)	16 (3.0)	18 (3.2)
Tennessee	40 (4.3)	33 (4.6)	12 (3.5)	15 (3.2)
Texas	29 (3.8)	28 (4.2)	20 (3.6)	24 (2.6)
Utah	61 (5.1)	28 (4.5)	9 (2.9)	3 (1.5)
Virginia	52 (3.4)	30 (4.0)	16 (3.4)	2 (1.4)
West Virginia	24 (4.0)	31 (4.1)	29 (4.0)	15 (3.0)
Wisconsin	66 (3.6)	23 (3.6)	6 (2.0)	5 (1.6)
Wyoming	65 (4.3)	24 (4.1)	4 (1.7)	8 (2.5)
TERRITORY				
Guam	36 (0.2)	18 (0.2)	13 (0.1)	33 (0.2)

The standard errors of the estimated percentages appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

TABLE A.5 | **Schools' Reports on the Percentage of Students Receiving Subsidized School Lunches (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992			
	Less than 25 Percent	26 to 50 Percent	51 to 75 Percent	More than 75 Percent
NATION	60 (3.3)	20 (3.1)	12 (2.4)	8 (1.4)
Northeast	69 (5.5)	12 (3.5)	6 (3.3)	13 (4.9)
Southeast	41 (6.5)	33 (7.7)	19 (6.9)	7 (1.3)
Central	75 (6.0)	10 (3.9)	7 (2.9)	8 (2.8)
West	59 (7.6)	21 (6.8)	13 (4.5)	6 (2.7)
STATES				
Alabama	40 (4.5)	24 (5.0)	20 (4.3)	16 (4.3)
Arizona	45 (4.6)	29 (4.6)	16 (3.5)	10 (2.9)
Arkansas	42 (4.8)	35 (4.9)	14 (3.7)	9 (2.6)
California	52 (4.2)	23 (4.1)	17 (3.6)	8 (2.8)
Colorado	63 (4.2)	23 (3.6)	6 (1.9)	8 (2.5)
Connecticut	75 (2.5)	9 (3.1)	11 (2.8)	5 (2.2)
Delaware	78 (0.2)	20 (0.2)	2 (0.1)	0 (0.0)
Dist. Columbia	7 (0.2)	37 (0.6)	32 (0.8)	24 (0.5)
Florida	49 (4.7)	33 (4.5)	11 (2.9)	7 (2.2)
Georgia	43 (4.4)	28 (4.6)	21 (4.5)	9 (2.9)
Hawaii	65 (0.3)	25 (0.3)	8 (0.1)	1 (0.0)
Idaho	58 (4.4)	37 (4.0)	5 (2.7)	0 (0.0)
Indiana	77 (3.9)	11 (3.0)	7 (2.1)	5 (2.9)
Iowa	68 (5.0)	28 (4.5)	2 (1.3)	2 (1.5)
Kentucky	43 (4.5)	29 (4.5)	17 (3.6)	10 (3.3)
Louisiana	26 (4.4)	27 (4.6)	22 (4.1)	25 (3.3)
Maine	55 (4.5)	34 (4.4)	9 (3.3)	2 (1.5)
Maryland	71 (3.9)	20 (4.3)	4 (1.5)	5 (2.2)
Massachusetts	74 (3.3)	10 (3.1)	12 (3.1)	4 (2.0)
Michigan	68 (3.9)	15 (3.9)	7 (2.5)	10 (2.6)
Minnesota	81 (3.8)	13 (3.7)	3 (1.7)	3 (1.9)
Mississippi	18 (3.3)	31 (4.4)	23 (4.3)	29 (3.9)
Missouri	64 (4.2)	24 (4.4)	6 (2.3)	6 (2.3)
Nebraska	71 (4.4)	22 (4.0)	4 (1.5)	3 (0.4)
New Hampshire	90 (2.3)	9 (2.1)	1 (0.9)	0 (0.0)
New Jersey	72 (3.7)	8 (2.6)	4 (1.1)	16 (2.8)
New Mexico	43 (3.7)	28 (3.8)	22 (4.1)	7 (2.2)
New York	57 (4.7)	17 (4.5)	10 (4.1)	16 (4.0)
North Carolina	45 (4.6)	39 (4.7)	11 (2.8)	5 (1.6)
North Dakota	63 (4.4)	29 (4.8)	2 (1.1)	6 (2.1)
Ohio	64 (3.8)	21 (3.8)	6 (2.5)	8 (2.1)
Oklahoma	50 (4.6)	37 (4.5)	8 (2.3)	4 (1.6)
Pennsylvania	69 (3.1)	20 (3.5)	6 (2.8)	5 (1.7)
Rhode Island	83 (0.2)	6 (0.1)	4 (0.1)	7 (0.1)
South Carolina	40 (4.4)	35 (5.1)	13 (3.1)	12 (3.1)
Tennessee	57 (4.6)	23 (4.4)	12 (3.4)	9 (3.0)
Texas	47 (4.3)	21 (4.3)	23 (4.1)	9 (2.1)
Utah	76 (3.8)	18 (3.7)	4 (2.1)	2 (1.2)
Virginia	70 (4.1)	21 (3.7)	7 (2.8)	2 (1.3)
West Virginia	36 (4.0)	43 (4.9)	18 (3.6)	3 (1.4)
Wisconsin	76 (4.3)	12 (3.0)	8 (2.7)	4 (1.8)
Wyoming	67 (4.2)	25 (3.5)	2 (1.4)	5 (2.1)
TERRITORIES				
Guam	100 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Virgin Islands	19 (0.1)	0 (0.0)	16 (0.1)	65 (0.1)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

School Problems and Climate

TABLE A.6 | **Schools' Reports on the Percentage of Students Absent on an Average Day**

PUBLIC SCHOOLS	Grade 4 - 1992							
	0 - 2 Percent		3 - 5 Percent		6 - 10 Percent		More than 10 Percent	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	29 (3.8)	222 (2.0)	59 (4.1)	218 (1.2)	11 (2.0)	206 (3.8)	0 (0.3)	*** (***)
Northeast	30 (8.8)	229 (3.9)	50(10.5)	224 (3.6)	19 (7.3)	215 (7.3)	1 (1.3)	*** (***)
Southeast	37 (7.5)	216 (3.4)	56 (7.8)	206 (2.2)	7 (3.2)	198 (5.9)	0 (0.0)	*** (***)
Central	27 (9.2)	229 (4.6)	70 (9.7)	221 (2.0)	3 (2.8)	187(15.0)	0 (0.0)	*** (***)
West	24 (4.5)	216 (3.3)	60 (5.1)	220 (2.3)	15 (2.7)	204 (2.9)	0 (0.5)	*** (***)
STATES								
Alabama	25 (4.1)	201 (3.8)	62 (4.6)	209 (2.2)	12 (3.5)	203 (2.9)	1 (1.1)	*** (***)
Arizona	10 (3.1)	222 (4.7)	67 (4.5)	214 (1.4)	23 (4.1)	210 (3.1)	0 (0.0)	*** (***)
Arkansas	32 (4.7)	206 (1.8)	62 (5.2)	210 (1.3)	5 (2.3)	218(12.7)	2 (1.2)	*** (***)
California	21 (4.1)	211 (4.3)	62 (5.1)	207 (1.9)	15 (3.8)	199 (4.6)	2 (1.3)	205(11.1)
Colorado	21 (4.2)	221 (2.0)	67 (5.0)	221 (1.3)	12 (3.1)	211 (3.8)	0 (0.0)	*** (***)
Connecticut	33 (4.7)	232 (2.3)	55 (4.3)	227 (1.8)	12 (2.8)	202 (4.9)	0 (0.0)	*** (***)
Delaware	14 (0.2)	221 (2.8)	63 (0.3)	217 (1.1)	23 (0.2)	214 (1.1)	0 (0.0)	*** (***)
Dist. Columbia	28 (0.2)	197 (1.2)	45 (0.3)	192 (1.0)	27 (0.3)	184 (1.3)	0 (0.0)	*** (***)
Florida	28 (4.9)	215 (3.0)	56 (5.1)	216 (2.3)	16 (3.5)	197 (4.5)	1 (0.7)	*** (***)
Georgia	32 (4.5)	215 (3.2)	60 (5.4)	214 (1.8)	8 (2.9)	212 (4.4)	0 (0.0)	*** (***)
Hawaii	8 (2.6)	218 (3.2)	68 (4.4)	216 (1.6)	23 (4.2)	205 (3.3)	1 (1.1)	*** (***)
Idaho	37 (4.7)	221 (1.6)	56 (4.9)	221 (1.3)	6 (2.6)	211 (2.3)	0 (0.0)	*** (***)
Indiana	21 (4.0)	225 (2.2)	76 (4.3)	218 (1.4)	3 (1.9)	217 (7.3)	0 (0.0)	*** (***)
Iowa	43 (4.8)	230 (1.6)	54 (4.7)	229 (1.5)	4 (1.8)	227 (6.8)	0 (0.0)	*** (***)
Kentucky	14 (3.8)	216 (3.1)	76 (3.8)	214 (1.1)	10 (2.7)	206 (5.3)	0 (0.0)	*** (***)
Louisiana	35 (4.8)	206 (2.4)	47 (5.2)	204 (2.5)	17 (3.8)	201 (4.9)	1 (1.1)	*** (***)
Maine	43 (4.2)	234 (1.6)	51 (4.6)	229 (1.4)	7 (2.7)	226 (3.4)	0 (0.0)	*** (***)
Maryland	24 (4.6)	225 (3.5)	62 (4.9)	218 (1.9)	13 (3.5)	195 (5.6)	1 (1.1)	*** (***)
Massachusetts	28 (4.0)	228 (2.3)	63 (4.5)	227 (1.7)	9 (2.1)	210 (5.6)	1 (1.0)	*** (***)
Michigan	21 (4.4)	222 (4.8)	68 (4.9)	220 (2.1)	11 (3.0)	204 (6.3)	0 (0.0)	*** (***)
Minnesota	45 (5.2)	228 (1.3)	53 (5.5)	227 (1.8)	2 (1.5)	*** (***)	0 (0.0)	*** (***)
Mississippi	33 (4.5)	195 (2.7)	59 (4.7)	204 (1.4)	7 (2.3)	187 (4.9)	0 (0.0)	*** (***)
Missouri	26 (4.3)	223 (2.8)	59 (4.5)	222 (1.8)	16 (3.5)	214 (4.1)	0 (0.0)	*** (***)
Nebraska	54 (4.5)	229 (1.5)	45 (4.4)	220 (1.8)	1 (1.0)	*** (***)	0 (0.0)	*** (***)
New Hampshire	30 (4.9)	230 (1.8)	69 (4.9)	228 (1.6)	1 (1.0)	*** (***)	0 (0.0)	*** (***)
New Jersey	31 (5.2)	227 (3.2)	56 (5.1)	229 (2.1)	12 (2.7)	210 (7.0)	1 (0.7)	*** (***)
New Mexico	32 (4.8)	214 (2.5)	56 (5.6)	212 (2.4)	13 (4.0)	206 (3.4)	0 (0.0)	*** (***)
New York	23 (4.7)	223 (3.0)	50 (5.4)	224 (2.1)	20 (3.9)	205 (4.1)	7 (2.3)	190 (5.7)
North Carolina	25 (4.1)	209 (2.8)	70 (4.5)	212 (1.5)	5 (2.0)	210 (5.7)	0 (0.0)	*** (***)
North Dakota	55 (5.1)	228 (1.4)	45 (5.1)	227 (1.2)	1 (0.6)	*** (***)	0 (0.0)	*** (***)
Ohio	25 (4.5)	228 (2.2)	62 (4.8)	217 (1.6)	13 (2.5)	200 (4.0)	0 (0.0)	*** (***)
Oklahoma	35 (4.2)	222 (1.8)	57 (4.6)	218 (1.2)	6 (2.4)	213 (3.8)	2 (1.5)	*** (***)
Pennsylvania	28 (4.0)	231 (1.8)	59 (4.7)	223 (2.0)	14 (3.1)	208 (5.1)	0 (0.0)	*** (***)
Rhode Island	25 (4.8)	218 (3.9)	58 (5.7)	215 (2.1)	18 (3.9)	204 (5.1)	0 (0.0)	*** (***)
South Carolina	36 (4.8)	211 (2.2)	64 (4.8)	211 (1.7)	0 (0.0)	*** (***)	0 (0.0)	*** (***)
Tennessee	25 (4.4)	214 (3.5)	58 (4.8)	212 (1.9)	17 (4.0)	195 (3.3)	0 (0.0)	*** (***)
Texas	26 (4.5)	214 (2.3)	66 (5.2)	220 (1.8)	8 (2.7)	198 (3.1)	0 (0.0)	*** (***)
Utah	29 (4.4)	222 (1.6)	64 (4.8)	223 (1.3)	7 (2.3)	218 (5.6)	0 (0.0)	*** (***)
Virginia	16 (3.7)	221 (4.4)	74 (4.8)	221 (2.0)	10 (3.0)	208 (3.6)	0 (0.0)	*** (***)
West Virginia	19 (3.4)	220 (2.8)	69 (4.5)	213 (1.3)	12 (3.1)	211 (3.6)	1 (0.6)	*** (***)
Wisconsin	42 (4.4)	231 (1.6)	52 (4.9)	227 (1.6)	5 (1.9)	210 (7.2)	1 (1.2)	*** (***)
Wyoming	25 (3.8)	226 (1.7)	68 (4.5)	224 (1.1)	7 (2.5)	218 (4.6)	0 (0.0)	*** (***)
TERRITORY								
Guam	25 (0.2)	197 (1.5)	43 (0.2)	187 (1.4)	32 (0.2)	192 (1.4)	0 (0.0)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.6 | **Schools' Reports on the Percentage of Students Absent on an Average Day (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	0 - 2 Percent		3 - 5 Percent		6 - 10 Percent		More than 10 Percent	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	14 (2.9)	275 (3.6)	54 (4.2)	268 (1.5)	28 (3.4)	262 (2.2)	4 (1.6)	245 (7.0)
Northeast	10 (6.6)	289(10.6)	40(10.6)	271 (4.3)	41(10.2)	265 (5.1)	9 (4.1)	231 (2.6)
Southeast	20 (5.7)	267 (3.7)	58 (7.3)	257 (2.5)	21 (5.5)	254 (3.6)	2 (1.6)	*** (***)
Central	15 (5.7)	282 (2.9)	58 (9.0)	277 (3.0)	28 (6.7)	263 (4.7)	0 (0.0)	*** (***)
West	12 (5.1)	271 (8.4)	56 (7.3)	270 (3.2)	26 (5.1)	264 (3.3)	6 (4.5)	258 (4.6)
STATES								
Alabama	22 (4.0)	247 (5.4)	62 (4.9)	254 (2.2)	15 (3.8)	248 (3.3)	1 (1.5)	*** (***)
Arizona	10 (3.4)	274 (6.5)	50 (5.2)	266 (2.1)	39 (4.6)	261 (1.9)	1 (0.9)	*** (***)
Arkansas	10 (2.7)	256 (4.0)	51 (5.0)	257 (1.8)	36 (4.6)	256 (1.6)	3 (1.6)	232 (8.8)
California	20 (3.8)	271 (4.2)	37 (5.0)	265 (2.9)	40 (4.9)	252 (2.2)	3 (1.6)	244 (8.7)
Colorado	8 (2.5)	277 (2.3)	66 (4.7)	274 (1.2)	22 (3.7)	266 (2.9)	4 (1.5)	253 (2.1)
Connecticut	14 (3.2)	283 (2.7)	50 (4.0)	284 (1.2)	32 (3.9)	255 (3.0)	3 (1.8)	240(11.8)
Delaware	6 (0.1)	285 (4.3)	33 (0.2)	260 (1.6)	58 (0.2)	261 (1.3)	3 (0.1)	257 (5.8)
Dist. Columbia	12 (0.5)	238 (2.2)	31 (0.6)	239 (1.6)	42 (0.4)	226 (1.4)	15 (0.4)	221 (1.6)
Florida	7 (2.5)	258 (4.7)	46 (5.5)	264 (2.6)	43 (5.3)	255 (2.4)	5 (2.5)	258 (5.6)
Georgia	14 (3.9)	260 (5.5)	49 (5.3)	257 (1.9)	35 (5.2)	259 (2.2)	2 (1.4)	*** (***)
Hawaii	6 (0.2)	258 (2.4)	53 (0.3)	264 (1.2)	30 (0.3)	251 (1.5)	10 (0.2)	235 (2.9)
Idaho	16 (2.8)	277 (1.9)	71 (3.4)	275 (0.9)	11 (2.7)	271 (1.7)	2 (1.5)	*** (***)
Indiana	8 (2.7)	282 (4.8)	73 (4.2)	272 (1.2)	19 (3.6)	256 (3.7)	1 (0.8)	*** (***)
Iowa	16 (3.6)	283 (2.1)	71 (4.3)	285 (1.1)	13 (2.5)	271 (2.6)	0 (0.0)	*** (***)
Kentucky	7 (2.7)	269 (5.3)	71 (4.3)	263 (1.4)	21 (4.0)	257 (2.6)	1 (1.2)	*** (***)
Louisiana	13 (3.7)	257 (6.7)	49 (4.8)	249 (2.4)	35 (4.3)	247 (2.1)	3 (1.8)	228(20.2)
Maine	19 (4.2)	279 (2.2)	65 (4.7)	279 (1.3)	17 (3.2)	273 (2.0)	0 (0.0)	*** (***)
Maryland	5 (2.5)	275 (9.8)	49 (4.9)	272 (2.3)	40 (5.0)	259 (2.6)	6 (2.2)	226 (5.3)
Massachusetts	12 (3.6)	282 (5.1)	52 (5.0)	279 (1.5)	34 (4.5)	262 (3.1)	3 (1.9)	*** (***)
Michigan	9 (3.2)	267 (8.7)	66 (4.9)	270 (2.2)	22 (3.9)	257 (4.0)	3 (1.0)	252 (2.7)
Minnesota	14 (4.0)	283 (3.4)	73 (5.1)	282 (1.1)	13 (3.2)	277 (3.1)	0 (0.0)	*** (***)
Mississippi	15 (3.6)	249 (3.7)	61 (4.9)	246 (2.1)	24 (4.0)	244 (2.2)	0 (0.0)	*** (***)
Missouri	9 (2.6)	276 (1.5)	54 (5.3)	272 (1.5)	32 (5.3)	271 (1.7)	4 (1.3)	237 (8.5)
Nebraska	15 (3.1)	284 (3.6)	74 (4.1)	278 (1.3)	11 (3.2)	272 (3.4)	0 (0.0)	*** (***)
New Hampshire	17 (3.1)	279 (1.8)	68 (4.0)	277 (1.2)	14 (2.6)	278 (2.3)	0 (0.0)	*** (***)
New Jersey	19 (4.4)	277 (4.9)	53 (5.4)	279 (2.2)	27 (4.6)	254 (5.6)	2 (1.3)	*** (***)
New Mexico	7 (2.6)	258 (5.8)	47 (4.7)	258 (1.5)	45 (4.8)	259 (1.4)	2 (1.3)	*** (***)
New York	11 (3.0)	277 (7.9)	47 (5.5)	279 (1.5)	31 (5.0)	257 (4.1)	11 (3.7)	221 (3.8)
North Carolina	9 (2.7)	252 (3.4)	60 (5.6)	260 (1.6)	30 (5.0)	255 (2.0)	0 (0.0)	*** (***)
North Dakota	31 (4.8)	283 (2.6)	68 (4.7)	282 (1.0)	1 (0.9)	*** (***)	0 (0.0)	*** (***)
Ohio	6 (2.5)	287 (8.3)	56 (6.1)	274 (1.8)	30 (4.9)	263 (5.2)	7 (2.1)	227 (5.3)
Oklahoma	24 (4.7)	269 (2.2)	62 (5.4)	267 (1.5)	13 (3.8)	264 (3.5)	1 (1.0)	*** (***)
Pennsylvania	13 (3.2)	282 (2.7)	59 (4.5)	275 (1.7)	22 (4.1)	261 (3.2)	6 (2.1)	238 (7.2)
Rhode Island	4 (0.1)	277 (3.8)	60 (0.2)	270 (1.0)	30 (0.2)	262 (1.3)	6 (0.2)	240 (2.1)
South Carolina	16 (3.4)	255 (3.2)	76 (4.0)	262 (1.4)	9 (3.0)	255 (7.7)	0 (0.0)	*** (***)
Tennessee	14 (3.3)	259 (3.7)	56 (4.9)	259 (2.0)	26 (4.5)	258 (3.1)	4 (1.2)	244 (3.8)
Texas	20 (4.6)	272 (4.8)	65 (5.1)	264 (1.6)	15 (3.5)	252 (2.9)	1 (0.7)	*** (***)
Utah	14 (3.4)	273 (1.6)	55 (4.9)	276 (1.0)	29 (4.1)	271 (1.6)	2 (0.1)	*** (***)
Virginia	15 (3.6)	274 (4.3)	51 (5.5)	270 (2.0)	32 (4.7)	262 (2.4)	2 (1.2)	*** (***)
West Virginia	8 (2.8)	261 (3.9)	50 (4.8)	259 (1.3)	42 (4.7)	256 (1.5)	0 (0.0)	*** (***)
Wisconsin	21 (4.9)	279 (3.5)	55 (5.4)	281 (1.9)	18 (3.4)	271 (3.8)	6 (1.8)	258 (9.0)
Wyoming	15 (2.9)	275 (2.2)	63 (4.4)	276 (1.1)	22 (3.6)	269 (2.6)	0 (0.0)	*** (***)
TERRITORIES								
Guam	0 (0.0)	*** (***)	30 (0.2)	232 (2.5)	36 (0.3)	235 (1.1)	34 (0.2)	234 (2.7)
Virgin Islands	21 (0.1)	216 (2.3)	45 (0.1)	230 (1.4)	34 (0.1)	214 (1.5)	0 (0.0)	*** (***)

TABLE A.7 | **Students' Reports on Days Absent from School During the Last Month**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Three Days or More		One or Two Days		None	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	23 (0.6)	257 (1.4)	34 (0.9)	268 (1.1)	42 (1.0)	271 (1.1)
Northeast	27 (1.7)	260 (3.7)	35 (2.6)	269 (2.4)	38 (2.3)	271 (3.7)
Southeast	21 (1.2)	244 (1.6)	35 (1.1)	261 (1.7)	44 (1.9)	264 (1.8)
Central	22 (0.9)	265 (3.7)	35 (2.0)	274 (2.9)	43 (1.9)	277 (1.6)
West	24 (1.1)	257 (2.6)	33 (1.4)	270 (2.2)	44 (1.9)	271 (2.5)
STATES						
Alabama	18 (0.9)	240 (2.6)	32 (1.1)	255 (2.0)	50 (1.1)	254 (1.7)
Arizona	26 (1.0)	255 (1.8)	35 (0.9)	269 (1.6) >	40 (1.2)	267 (1.4)
Arkansas	23 (1.0)	245 (1.9)	34 (0.8)	257 (1.5)	43 (1.0)	260 (1.6)
California	24 (0.9) <	250 (2.3)	34 (1.0)	262 (1.9)	42 (1.2)	267 (1.8)
Colorado	24 (0.9)	263 (1.7)	34 (0.9)	274 (1.5) >	42 (1.2)	275 (1.1)
Connecticut	21 (0.9)	259 (1.6)	35 (1.1)	276 (1.5)	44 (1.3)	278 (1.6)
Delaware	29 (1.0)	250 (1.4)	33 (1.0)	266 (1.5)	38 (1.3)	269 (1.8)
Dist. Columbia	34 (1.1)	230 (1.6)	32 (1.2)	236 (1.5)	34 (1.3)	238 (1.9)
Florida	25 (1.1)	249 (2.2)	33 (1.1)	263 (2.0)	42 (1.1)	263 (1.6)
Georgia	23 (0.9)	248 (1.8)	32 (1.0)	261 (1.4)	46 (1.2)	263 (1.7)
Hawaii	25 (0.8)	243 (1.7)	31 (0.9)	258 (1.5)	45 (1.0)	264 (1.2) »
Idaho	21 (1.0)	265 (1.8)	37 (1.2)	276 (1.1)	42 (1.2)	278 (1.1) »
Indiana	19 (0.9) <	255 (2.1)	33 (0.9)	267 (1.4)	48 (1.3) »	277 (1.4)
Iowa	16 (0.7) <	271 (1.6)	32 (1.0)	282 (1.4) >	52 (1.1) »	287 (1.1) >
Kentucky	21 (0.9)	249 (1.9)	33 (1.0)	261 (1.4)	46 (0.9)	268 (1.4) >
Louisiana	24 (1.0)	241 (2.2)	36 (1.1)	251 (1.7)	39 (1.2)	253 (1.9)
Maine[1]	17 (0.8)	267 (1.8)	35 (1.0)	279 (1.5)	47 (1.1)	282 (1.3)
Maryland	23 (1.1) <	250 (1.8)	35 (1.0)	269 (1.7) >	42 (1.1) »	268 (1.6)
Massachusetts[1]	23 (1.0)	259 (2.0)	35 (1.1)	273 (1.6)	42 (1.2)	279 (1.2)
Michigan	24 (1.0)	255 (1.7)	33 (1.1)	268 (1.6)	43 (1.2)	273 (1.9)
Minnesota	16 (0.7) «	272 (1.9) >	34 (0.9)	282 (1.5)	50 (1.1) »	285 (1.0) »
Mississippi[1]	20 (0.9)	237 (1.8)	31 (1.0)	248 (2.0)	49 (0.9)	248 (1.1)
Missouri[1]	21 (0.9)	258 (1.9)	33 (1.0)	273 (1.4)	46 (1.1)	275 (1.3)
Nebraska	17 (0.9)	266 (2.1)	34 (0.9)	277 (1.4)	49 (1.1)	281 (1.5)
New Hampshire	20 (0.9)	267 (1.7) >	38 (1.1)	279 (1.3)	42 (1.0)	281 (1.3)
New Jersey	22 (1.1)	261 (2.5)	36 (1.2)	274 (1.8)	42 (1.3)	275 (1.9)
New Mexico	29 (1.0)	248 (1.4)	36 (0.9)	262 (1.2)	35 (1.0)	265 (1.3)
New York	25 (1.3)	252 (3.1)	32 (1.2)	269 (2.3)	43 (1.3)	273 (2.2)
North Carolina	21 (0.9) «	248 (1.7) >	33 (1.1)	260 (1.6) >	46 (1.0) >	260 (1.5) »
North Dakota	14 (0.8)	273 (2.4)	35 (1.2)	284 (1.6)	52 (1.2)	284 (1.5)
Ohio	21 (1.2)	254 (2.1)	34 (1.1)	268 (1.8)	45 (1.3)	274 (1.7) >
Oklahoma	18 (0.9) <	260 (2.0)	33 (1.2)	269 (1.5)	49 (1.4)	270 (1.3)
Pennsylvania	21 (0.8)	259 (2.3)	34 (1.1)	270 (1.8)	45 (1.1) >	277 (1.4) >
Rhode Island	23 (1.1) <	253 (1.7)	36 (1.1)	267 (1.3)	41 (1.6)	271 (1.1) »
South Carolina[1]	18 (0.8)	251 (1.9)	32 (1.0)	261 (1.3)	50 (1.2)	263 (1.3)
Tennessee[1]	22 (1.0)	247 (1.8)	36 (1.0)	260 (1.7)	41 (1.0)	263 (1.6)
Texas	19 (0.8)	251 (2.6)	31 (1.1)	264 (1.6)	51 (1.2)	269 (1.5) »
Utah[1]	23 (0.8)	266 (1.5)	36 (1.0)	275 (1.1)	41 (1.0)	278 (1.0)
Virginia	22 (1.0)	256 (1.7)	34 (0.9)	271 (1.5)	44 (1.3)	270 (1.5)
West Virginia	25 (1.0)	245 (1.4)	36 (1.1)	261 (1.3)	40 (1.2)	265 (1.3) >
Wisconsin	17 (0.9) <	265 (2.7)	35 (1.0)	279 (1.6)	47 (1.0) >	281 (1.5)
Wyoming	21 (0.9)	263 (1.4)	35 (1.0)	276 (1.1) >	44 (1.1)	279 (1.0)
TERRITORIES						
Guam	37 (1.3) »	229 (1.7) »	30 (1.0)	240 (2.1)	33 (1.2) «	244 (1.9)
Virgin Islands	24 (0.9)	218 (1.9)	30 (1.1)	223 (1.8)	46 (1.3)	225 (1.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

[1] Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.

»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.8 | **Students' Reports on Number of Times They Changed Schools During the Past Two Years Because They Changed Where They Lived**

PUBLIC SCHOOLS	Grade 4 - 1992					
	None		One or Two		Three or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	60 (0.9)	224 (0.9)	28 (0.7)	212 (1.3)	13 (0.5)	199 (1.6)
Northeast	65 (1.9)	229 (2.3)	26 (1.3)	215 (3.7)	10 (1.3)	203 (4.8)
Southeast	56 (2.1)	215 (2.4)	29 (1.5)	203 (2.5)	15 (1.1)	197 (2.1)
Central	63 (1.9)	228 (1.7)	27 (1.5)	216 (3.3)	10 (0.7)	203 (4.7)
West	56 (1.3)	224 (1.9)	29 (1.2)	214 (2.0)	14 (0.8)	198 (2.7)
STATES						
Alabama	62 (1.4)	211 (1.7)	26 (1.1)	202 (2.1)	11 (0.7)	195 (2.2)
Arizona	54 (1.5)	218 (1.3)	30 (1.1)	211 (1.5)	16 (0.9)	203 (1.9)
Arkansas	62 (1.2)	212 (1.0)	26 (1.1)	206 (1.6)	13 (0.7)	200 (2.3)
California	54 (2.0)	214 (2.0)	31 (1.3)	203 (1.6)	15 (1.1)	193 (2.5)
Colorado	58 (1.3)	225 (1.1)	28 (1.0)	216 (1.5)	14 (0.9)	204 (2.1)
Connecticut	68 (1.2)	233 (1.1)	23 (1.0)	215 (1.9)	9 (0.7)	204 (2.5)
Delaware	58 (1.3)	224 (0.8)	28 (0.9)	210 (1.6)	14 (0.9)	200 (1.9)
Dist. Columbia	52 (1.0)	199 (1.1)	35 (1.1)	184 (1.2)	13 (0.7)	181 (1.8)
Florida	50 (1.6)	217 (1.6)	33 (1.2)	210 (2.3)	16 (0.9)	202 (1.6)
Georgia	58 (1.9)	220 (1.3)	29 (1.4)	210 (1.9)	13 (0.9)	199 (1.8)
Hawaii	55 (1.3)	218 (1.6)	29 (1.0)	208 (1.6)	15 (0.9)	204 (2.1)
Idaho	63 (1.3)	224 (0.9)	25 (1.0)	218 (1.5)	12 (0.7)	207 (2.0)
Indiana	64 (1.2)	225 (1.0)	25 (1.0)	215 (1.5)	10 (0.8)	201 (1.8)
Iowa	71 (1.2)	233 (1.1)	21 (0.9)	225 (1.9)	8 (0.7)	208 (2.3)
Kentucky	64 (1.3)	217 (1.1)	25 (1.0)	212 (1.7)	11 (0.8)	202 (2.5)
Louisiana	59 (1.5)	207 (1.5)	28 (1.2)	200 (1.9)	13 (0.8)	192 (2.4)
Maine	72 (1.4)	234 (1.1)	19 (1.1)	226 (2.3)	9 (0.7)	214 (2.5)
Maryland	58 (1.5)	224 (1.4)	31 (1.2)	209 (1.9)	11 (0.7)	196 (2.2)
Massachusetts	71 (1.3)	230 (1.3)	22 (1.1)	215 (1.8)	6 (0.6)	210 (3.1)
Michigan	63 (1.5)	225 (1.7)	26 (1.2)	212 (2.4)	11 (0.7)	197 (3.0)
Minnesota	70 (1.2)	232 (1.0)	21 (1.0)	221 (1.8)	9 (0.7)	209 (2.4)
Mississippi	64 (1.3)	203 (1.4)	25 (1.0)	195 (1.6)	11 (0.9)	194 (2.2)
Missouri	64 (1.4)	225 (1.2)	24 (1.3)	219 (2.1)	12 (0.8)	203 (2.3)
Nebraska	68 (1.1)	228 (1.4)	22 (0.9)	220 (1.9)	10 (0.7)	205 (3.1)
New Hampshire	74 (1.2)	231 (1.3)	19 (1.2)	225 (1.8)	7 (0.6)	214 (2.5)
New Jersey	69 (1.3)	232 (1.4)	23 (1.0)	216 (1.9)	8 (0.8)	205 (2.8)
New Mexico	57 (2.3)	217 (2.1)	28 (1.8)	207 (1.7)	14 (0.9)	202 (2.2)
New York	67 (1.3)	223 (1.2)	25 (1.2)	210 (1.9)	8 (0.7)	197 (2.8)
North Carolina	61 (1.3)	215 (1.3)	26 (0.9)	210 (1.7)	13 (0.8)	197 (2.1)
North Dakota	74 (1.5)	230 (0.9)	18 (1.1)	223 (1.8)	8 (0.9)	212 (2.6)
Ohio	66 (1.0)	222 (1.1)	23 (0.8)	213 (1.8)	12 (0.7)	202 (2.0)
Oklahoma	59 (1.3)	224 (1.2)	27 (1.0)	215 (1.6)	14 (0.9)	207 (1.6)
Pennsylvania	69 (1.4)	229 (1.4)	22 (1.0)	215 (1.8)	9 (0.6)	200 (2.7)
Rhode Island	66 (1.5)	219 (1.6)	25 (1.2)	207 (2.2)	9 (0.8)	198 (3.6)
South Carolina	62 (1.2)	214 (1.3)	27 (1.0)	208 (1.5)	11 (0.7)	201 (1.7)
Tennessee	61 (1.4)	214 (1.3)	27 (1.0)	206 (2.1)	12 (0.8)	196 (2.5)
Texas	55 (1.7)	222 (1.4)	30 (1.3)	215 (1.9)	15 (0.9)	204 (2.5)
Utah	67 (1.1)	226 (1.0)	23 (0.9)	219 (1.7)	9 (0.7)	208 (2.2)
Virginia	61 (1.3)	225 (1.5)	26 (1.1)	215 (1.9)	13 (0.8)	203 (2.1)
West Virginia	72 (1.0)	217 (1.1)	20 (0.9)	208 (1.7)	9 (0.7)	199 (2.2)
Wisconsin	71 (1.2)	232 (1.1)	20 (0.9)	222 (1.6)	9 (0.6)	208 (2.6)
Wyoming	61 (1.3)	228 (0.9)	24 (0.8)	221 (1.5)	14 (0.9)	213 (2.0)
TERRITORY						
Guam	45 (1.1)	192 (1.2)	37 (1.1)	192 (1.6)	18 (0.8)	189 (2.0)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.8 | **Students' Reports on Number of Times They Changed Schools During the Past Two Years Because They Changed Where They Lived (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	None		One or Two		Three or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	78 (0.7)	270 (1.0)	18 (0.6)	258 (1.8)	4 (0.3)	244 (2.4)
Northeast	81 (1.3)	271 (3.0)	16 (1.3)	254 (4.5)	2 (0.5)	*** (***)
Southeast	76 (1.5)	261 (1.4)	20 (1.3)	254 (2.5)	4 (0.6)	240 (3.6)
Central	82 (0.7)	277 (2.1)	15 (0.6)	262 (3.6)	3 (0.7)	*** (***)
West	74 (1.5)	271 (2.2)	22 (1.2)	261 (3.6)	5 (0.6)	248 (3.4)
STATES						
Alabama	77 (0.8)	253 (1.8)	19 (0.8)	249 (2.3)	4 (0.5)	242 (4.0)
Arizona	71 (1.2)	267 (1.3)	24 (1.1)	260 (2.3)	5 (0.5)	258 (3.2)
Arkansas	76 (1.0)	258 (1.2)	19 (0.8)	248 (2.0)	5 (0.5)	249 (4.0)
California	73 (1.5)	266 (1.7)	22 (1.2)	254 (2.3)	5 (0.6)	240 (4.1)
Colorado	74 (0.7)	275 (1.0)	20 (0.6)	264 (1.9)	5 (0.4)	253 (3.1)
Connecticut	81 (1.0)	277 (1.0)	16 (0.9)	261 (2.0)	3 (0.4)	*** (***)
Delaware	74 (0.9)	266 (1.0)	21 (0.8)	254 (2.5)	4 (0.4)	250 (4.9)
Dist. Columbia	75 (1.2)	238 (1.2)	21 (1.1)	227 (1.8)	4 (0.4)	220 (6.0)
Florida	69 (1.2)	262 (1.5)	26 (1.0)	256 (1.8)	5 (0.5)	251 (3.2)
Georgia	76 (1.1)	261 (1.3)	21 (1.0)	255 (2.0)	4 (0.4)	247 (3.6)
Hawaii	74 (1.0)	260 (1.0)	21 (0.8)	252 (2.0)	5 (0.4)	242 (4.4)
Idaho	79 (0.7)	276 (0.9)	16 (0.6)	273 (1.6)	4 (0.5)	258 (2.9)
Indiana	81 (0.9)	271 (1.2)	16 (0.8)	263 (2.3)	3 (0.3)	252 (4.5)
Iowa	86 (0.7)	284 (1.0)	12 (0.6)	277 (2.0)	2 (0.3)	*** (***)
Kentucky	80 (0.8)	264 (1.2)	16 (0.8)	257 (1.6)	3 (0.4)	245 (3.9)
Louisiana	77 (1.1)	251 (1.7)	19 (1.0)	245 (2.5)	4 (0.4)	244 (3.5)
Maine	86 (0.8)	279 (1.0)	12 (0.7)	272 (2.4)	2 (0.3)	*** (***)
Maryland	78 (1.4)	267 (1.4)	19 (1.3)	259 (2.6)	3 (0.4)	245 (4.5)
Massachusetts	86 (0.7)	274 (1.2)	11 (0.7)	261 (2.0)	2 (0.3)	*** (***)
Michigan	80 (1.0)	270 (1.6)	17 (0.8)	256 (2.2)	4 (0.4)	246 (4.3)
Minnesota	85 (0.8)	284 (1.0)	13 (0.7)	273 (2.5)	2 (0.3)	*** (***)
Mississippi	79 (0.9)	247 (1.3)	18 (0.9)	241 (2.1)	3 (0.4)	246 (4.3)
Missouri	79 (0.8)	273 (1.1)	18 (0.8)	264 (2.3)	4 (0.3)	256 (2.9)
Nebraska	82 (1.0)	279 (1.2)	15 (0.9)	271 (1.8)	3 (0.4)	252 (4.2)
New Hampshire	85 (0.8)	279 (1.1)	13 (0.8)	273 (2.1)	2 (0.3)	*** (***)
New Jersey	80 (1.0)	275 (1.3)	17 (0.9)	257 (3.1)	2 (0.3)	*** (***)
New Mexico	75 (0.9)	261 (0.9)	20 (0.7)	256 (1.8)	4 (0.4)	249 (3.2)
New York	83 (0.9)	270 (2.0)	15 (0.9)	255 (3.5)	2 (0.3)	*** (***)
North Carolina	78 (1.0)	260 (1.2)	17 (0.8)	253 (1.8)	5 (0.5)	244 (3.6)
North Dakota	86 (0.9)	284 (1.2)	13 (0.8)	275 (1.7)	1 (0.3)	*** (***)
Ohio	80 (0.9)	271 (1.5)	17 (0.8)	259 (3.0)	3 (0.4)	242 (4.9)
Oklahoma	77 (0.9)	270 (1.2)	19 (0.8)	262 (2.1)	4 (0.4)	255 (3.6)
Pennsylvania	86 (0.9)	273 (1.4)	12 (0.8)	261 (2.9)	2 (0.3)	*** (***)
Rhode Island	81 (1.3)	268 (0.9)	17 (1.3)	259 (1.8)	2 (0.3)	*** (***)
South Carolina	78 (1.0)	261 (1.0)	19 (0.9)	257 (2.0)	4 (0.4)	251 (3.7)
Tennessee	79 (1.0)	261 (1.6)	17 (1.0)	249 (2.0)	4 (0.4)	250 (3.1)
Texas	74 (0.9)	267 (1.5)	22 (0.7)	258 (2.0)	4 (0.5)	248 (3.3)
Utah	80 (0.8)	276 (0.7)	17 (0.7)	270 (1.8)	4 (0.4)	256 (3.9)
Virginia	75 (1.2)	269 (1.3)	21 (1.1)	263 (2.2)	4 (0.4)	260 (3.1)
West Virginia	85 (0.7)	260 (1.1)	13 (0.7)	252 (2.1)	3 (0.3)	248 (3.8)
Wisconsin	84 (0.8)	279 (1.4)	13 (0.7)	273 (2.6)	2 (0.3)	248 (5.6)
Wyoming	78 (0.9)	276 (1.0)	18 (0.8)	271 (1.6)	4 (0.4)	257 (3.9)
TERRITORIES						
Guam	69 (1.3)	240 (1.2)	24 (1.2)	238 (2.1)	7 (0.8)	229 (4.6)
Virgin Islands	78 (1.2)	224 (1.3)	19 (1.1)	220 (2.0)	3 (0.4)	*** (***)

***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.9 | **Schools' Reports on the Degree of Students' Tardiness in the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	12 (1.8)	199 (2.6)	57 (3.1)	219 (1.3)	30 (3.3)	222 (1.9)
Northeast	16 (5.7)	205 (6.7)	41 (7.9)	223 (4.5)	43 (8.0)	228 (3.3)
Southeast	10 (3.6)	193 (6.0)	59 (4.2)	211 (2.8)	31 (5.3)	210 (3.4)
Central	7 (2.4)	204 (5.3)	60 (7.1)	222 (2.2)	33 (7.3)	227 (3.6)
West	16 (3.4)	196 (3.4)	66 (5.7)	220 (2.2)	17 (5.5)	219 (2.6)
STATES						
Alabama	13 (3.3)	205 (2.9)	61 (5.1)	205 (2.3)	25 (4.2)	211 (3.5)
Arizona	29 (4.9)	214 (2.7)	57 (4.9)	213 (1.9)	14 (3.4)	216 (4.5)
Arkansas	12 (3.1)	208 (7.3)	57 (5.2)	208 (1.4)	31 (4.6)	211 (1.5)
California	26 (4.9)	200 (3.4)	63 (4.9)	207 (2.4)	11 (2.7)	222 (4.8)
Colorado	19 (3.5)	209 (2.7)	46 (5.2)	219 (1.7)	35 (4.8)	226 (1.8)
Connecticut	7 (2.5)	200 (6.5)	44 (4.8)	220 (2.3)	49 (4.5)	236 (1.5)
Delaware	10 (0.2)	218 (2.1)	51 (0.2)	219 (1.0)	39 (0.3)	213 (1.7)
Dist. Columbia	35 (0.3)	185 (1.1)	55 (0.3)	192 (0.8)	11 (0.2)	209 (1.9)
Florida	24 (3.9)	207 (3.2)	55 (4.6)	213 (2.6)	21 (3.5)	217 (3.2)
Georgia	24 (4.1)	214 (2.7)	53 (4.7)	214 (2.1)	22 (4.3)	214 (4.0)
Hawaii	18 (4.1)	206 (3.1)	62 (5.2)	212 (1.9)	20 (4.2)	221 (2.8)
Idaho	6 (1.9)	219 (3.4)	60 (4.7)	220 (1.2)	35 (4.9)	222 (1.8)
Indiana	15 (3.6)	215 (3.8)	48 (5.2)	219 (1.4)	37 (4.6)	223 (1.5)
Iowa	8 (2.3)	222 (3.9)	36 (4.1)	228 (2.1)	56 (4.3)	231 (1.2)
Kentucky	12 (2.7)	208 (3.4)	53 (4.5)	215 (1.4)	35 (4.1)	213 (1.5)
Louisiana	16 (3.6)	188 (6.1)	60 (4.7)	206 (1.7)	25 (4.4)	207 (3.9)
Maine	2 (1.3)	*** (***)	36 (4.9)	231 (1.7)	62 (4.8)	230 (1.4)
Maryland	14 (3.5)	200 (5.3)	56 (5.3)	214 (2.3)	30 (4.5)	228 (2.6)
Massachusetts	11 (3.1)	208 (6.5)	45 (4.8)	227 (2.1)	44 (5.2)	229 (2.1)
Michigan	12 (3.1)	199 (7.0)	49 (5.4)	216 (2.5)	39 (5.0)	228 (2.7)
Minnesota	3 (1.8)	212 (8.0)	39 (5.0)	224 (2.2)	58 (4.7)	230 (1.1)
Mississippi	11 (2.1)	195 (3.0)	65 (4.9)	201 (1.8)	24 (4.7)	199 (3.0)
Missouri	13 (3.8)	210 (4.2)	48 (5.1)	219 (1.9)	39 (4.8)	228 (1.7)
Nebraska	11 (3.6)	215 (4.2)	47 (4.1)	224 (1.9)	42 (4.6)	227 (2.2)
New Hampshire	5 (2.3)	224 (8.7)	43 (5.4)	230 (1.9)	52 (5.8)	229 (1.3)
New Jersey	14 (3.1)	201 (4.6)	36 (5.1)	230 (3.1)	51 (5.4)	230 (2.2)
New Mexico	18 (4.1)	207 (2.7)	48 (5.3)	211 (1.9)	35 (5.1)	215 (3.7)
New York	17 (3.9)	207 (4.1)	39 (5.1)	213 (3.1)	44 (5.4)	225 (2.4)
North Carolina	20 (4.1)	205 (3.2)	56 (4.9)	214 (1.7)	23 (4.0)	212 (3.0)
North Dakota	1 (0.8)	*** (***)	41 (5.0)	225 (1.3)	58 (5.0)	229 (1.0)
Ohio	13 (2.8)	204 (2.8)	55 (4.7)	217 (1.6)	32 (5.2)	223 (2.8)
Oklahoma	12 (3.3)	214 (3.4)	61 (5.1)	219 (1.3)	26 (4.5)	220 (2.1)
Pennsylvania	14 (3.2)	201 (5.0)	33 (5.3)	223 (3.1)	54 (5.5)	229 (1.5)
Rhode Island	8 (2.7)	198 (5.7)	48 (5.3)	216 (2.4)	44 (5.6)	214 (2.6)
South Carolina	23 (3.9)	210 (2.6)	55 (4.9)	211 (1.7)	22 (4.6)	211 (3.1)
Tennessee	15 (3.5)	201 (4.1)	69 (5.0)	210 (1.6)	16 (3.8)	216 (4.4)
Texas	12 (3.2)	209 (3.0)	64 (5.1)	219 (1.8)	23 (4.2)	215 (3.7)
Utah	20 (3.8)	221 (2.7)	62 (4.7)	222 (1.4)	19 (3.9)	225 (2.2)
Virginia	7 (2.5)	212 (4.4)	50 (5.4)	217 (2.1)	43 (5.3)	224 (2.5)
West Virginia	7 (2.2)	216 (4.5)	58 (4.9)	215 (1.6)	35 (4.4)	212 (1.6)
Wisconsin	7 (2.4)	211 (4.4)	48 (4.8)	226 (1.5)	45 (4.8)	231 (1.6)
Wyoming	11 (3.2)	219 (2.8)	47 (4.6)	224 (1.6)	42 (4.6)	226 (1.3)
TERRITORY						
Guam	32 (0.2)	196 (1.3)	68 (0.2)	188 (1.1)	0 (0.0)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.9 | **Schools' Reports on the Degree of Students' Tardiness in the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	23 (3.1)	254 (3.0)	57 (4.0)	269 (1.4)	20 (3.6)	274 (2.8)
Northeast	18 (4.4)	233 (3.7)	54 (9.8)	270 (3.3)	28 (8.6)	282 (6.8)
Southeast	27 (6.9)	251 (4.1)	54 (8.2)	259 (2.3)	19 (7.8)	266 (2.6)
Central	29 (7.0)	265 (4.9)	58 (8.4)	276 (2.1)	14 (7.3)	280 (4.7)
West	18 (5.4)	260 (7.2)	62 (6.5)	269 (2.9)	20 (5.6)	271 (2.5)
STATES						
Alabama	28 (4.3)	249 (3.3)	62 (4.8)	252 (2.4)	10 (3.2)	253 (4.8)
Arizona	44 (5.1)	259 (1.8)	42 (5.3)	269 (1.7)	14 (3.6)	266 (5.4)
Arkansas	39 (5.1)	256 (2.1)	53 (5.1)	256 (1.6)	9 (2.9)	256 (3.2)
California	30 (4.1)	248 (3.4)	58 (4.8)	265 (2.4)	12 (2.8)	268 (4.7)
Colorado	30 (4.4)	263 (2.3)	55 (4.6)	275 (1.5)	15 (2.9)	273 (2.4)
Connecticut	17 (3.2)	254 (4.9)	57 (5.3)	274 (2.3)	26 (4.7)	284 (2.4)
Delaware	28 (0.2)	264 (2.1)	57 (0.2)	259 (1.2)	15 (0.1)	269 (3.2)
Dist. Columbia	67 (0.7)	225 (1.1)	26 (0.8)	245 (1.8)	7 (0.2)	233 (1.7)
Florida	40 (4.4)	252 (3.0)	50 (4.9)	262 (1.6)	10 (3.1)	274 (4.3)
Georgia	21 (4.4)	255 (2.9)	70 (4.8)	260 (1.9)	9 (2.8)	260 (3.2)
Hawaii	21 (0.3)	249 (1.8)	72 (0.3)	258 (1.1)	8 (0.1)	268 (3.6)
Idaho	31 (4.6)	275 (1.4)	59 (4.7)	274 (1.0)	11 (1.6)	278 (1.7)
Indiana	33 (5.3)	261 (2.6)	52 (5.2)	272 (1.5)	15 (3.5)	277 (3.5)
Iowa	15 (3.3)	275 (2.8)	60 (4.5)	283 (1.2)	25 (3.9)	288 (2.2)
Kentucky	17 (4.2)	260 (3.2)	64 (5.8)	262 (1.5)	19 (4.4)	263 (2.8)
Louisiana	33 (5.3)	244 (3.4)	52 (5.4)	249 (2.5)	16 (4.3)	258 (4.4)
Maine	5 (2.7)	270 (4.5)	59 (4.6)	276 (1.0)	36 (4.6)	283 (2.0)
Maryland	23 (4.3)	248 (4.8)	61 (5.4)	267 (2.2)	16 (3.7)	276 (4.0)
Massachusetts	23 (4.7)	260 (4.7)	54 (5.7)	275 (1.9)	23 (4.0)	280 (2.3)
Michigan	33 (3.9)	255 (2.8)	56 (4.5)	271 (2.0)	11 (3.1)	279 (7.0)
Minnesota	12 (2.7)	278 (3.1)	70 (4.4)	282 (1.2)	18 (3.7)	282 (2.1)
Mississippi	37 (5.1)	247 (2.2)	53 (5.2)	246 (2.0)	10 (3.2)	237 (6.3)
Missouri	27 (4.3)	267 (3.0)	52 (4.9)	271 (1.6)	21 (4.3)	273 (1.5)
Nebraska	20 (3.1)	272 (3.0)	54 (5.2)	279 (1.5)	27 (4.8)	279 (1.7)
New Hampshire	15 (3.4)	279 (2.0)	47 (4.4)	277 (1.1)	38 (3.9)	278 (1.9)
New Jersey	14 (3.4)	243 (4.1)	49 (5.7)	271 (3.2)	38 (4.5)	282 (1.5)
New Mexico	35 (3.8)	258 (1.6)	54 (4.1)	258 (1.3)	11 (3.0)	262 (3.4)
New York	27 (4.9)	241 (5.9)	53 (5.4)	271 (2.5)	20 (3.8)	285 (2.3)
North Carolina	22 (3.4)	253 (2.7)	65 (4.5)	258 (1.5)	13 (3.4)	263 (3.2)
North Dakota	12 (2.7)	281 (2.0)	52 (3.8)	282 (1.3)	36 (3.9)	284 (2.4)
Ohio	24 (3.9)	254 (4.1)	60 (5.0)	272 (2.5)	16 (3.3)	272 (3.3)
Oklahoma	23 (4.9)	267 (2.5)	64 (5.3)	267 (1.7)	14 (3.1)	270 (3.6)
Pennsylvania	19 (3.8)	260 (3.2)	55 (5.2)	270 (2.5)	26 (4.2)	280 (2.5)
Rhode Island	30 (0.2)	255 (1.1)	60 (0.2)	270 (1.2)	9 (0.1)	275 (2.0)
South Carolina	38 (5.2)	259 (1.9)	53 (5.2)	261 (1.7)	9 (3.1)	260 (6.2)
Tennessee	24 (4.1)	250 (2.2)	68 (4.8)	261 (2.0)	8 (2.9)	254 (5.7)
Texas	47 (5.6)	262 (2.6)	47 (5.5)	266 (2.3)	6 (2.4)	262 (6.1)
Utah	35 (3.9)	272 (1.4)	59 (4.4)	275 (1.1)	6 (2.1)	275 (2.6)
Virginia	23 (4.3)	260 (3.1)	62 (5.2)	269 (1.7)	15 (3.5)	271 (4.2)
West Virginia	27 (4.7)	257 (1.7)	54 (5.0)	258 (1.5)	19 (4.2)	260 (2.4)
Wisconsin	15 (3.0)	256 (4.6)	48 (5.4)	280 (1.2)	37 (5.9)	282 (2.8)
Wyoming	23 (3.2)	268 (2.1)	67 (3.4)	276 (1.1)	10 (1.6)	278 (1.6)
TERRITORIES						
Guam	70 (0.2)	235 (1.4)	30 (0.2)	232 (2.5)	0 (0.0)	*** (***)
Virgin Islands	44 (0.2)	225 (1.4)	37 (0.2)	221 (1.4)	19 (0.1)	215 (2.4)

TABLE A.10 | **Schools' Reports on the Degree of Students' Cutting of Classes in the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	0 (0.0)	*** (***)	3 (1.1)	197 (4.7)	97 (1.1)	218 (0.9)
Northeast	0 (0.0)	*** (***)	1 (1.4)	*** (***)	99 (1.4)	223 (2.3)
Southeast	0 (0.0)	*** (***)	4 (2.7)	*** (***)	96 (2.7)	209 (2.0)
Central	0 (0.0)	*** (***)	5 (2.8)	200 (7.7)	95 (2.8)	223 (2.2)
West	0 (0.0)	*** (***)	3 (1.6)	192 (9.2)	97 (1.6)	217 (1.7)
STATES						
Alabama	0 (0.0)	*** (***)	12 (3.0)	209 (5.3)	88 (3.0)	207 (1.6)
Arizona	0 (0.0)	*** (***)	19 (3.8)	208 (3.4)	81 (3.8)	215 (1.3)
Arkansas	1 (1.1)	*** (***)	8 (2.5)	212 (3.4)	91 (2.7)	209 (1.0)
California	1 (0.6)	*** (***)	11 (2.8)	192 (5.5)	88 (2.7)	209 (1.8)
Colorado	0 (0.0)	*** (***)	7 (2.4)	221 (3.4)	93 (2.4)	220 (1.1)
Connecticut	0 (0.0)	*** (***)	2 (1.1)	*** (***)	98 (1.1)	226 (1.3)
Delaware	5 (0.1)	*** (***)	10 (0.2)	218 (3.3)	85 (0.2)	216 (0.9)
Dist. Columbia	2 (0.0)	*** (***)	14 (0.2)	179 (1.3)	83 (0.2)	194 (0.7)
Florida	1 (0.9)	*** (***)	4 (2.0)	192 (4.5)	95 (2.3)	214 (1.4)
Georgia	0 (0.0)	*** (***)	5 (2.1)	216 (8.5)	95 (2.1)	214 (1.4)
Hawaii	0 (0.0)	*** (***)	3 (1.4)	205 (5.3)	97 (1.4)	213 (1.4)
Idaho	0 (0.0)	*** (***)	5 (2.0)	217 (3.4)	95 (2.0)	220 (1.0)
Indiana	0 (0.0)	*** (***)	3 (2.0)	204 (2.8)	97 (2.0)	220 (1.1)
Iowa	0 (0.0)	*** (***)	2 (1.3)	234 (4.9)	98 (1.3)	229 (1.1)
Kentucky	0 (0.0)	*** (***)	4 (1.8)	227 (5.4)	96 (1.8)	213 (1.0)
Louisiana	0 (0.0)	*** (***)	10 (3.1)	192 (6.1)	90 (3.1)	205 (1.6)
Maine	0 (0.0)	*** (***)	2 (1.6)	*** (***)	98 (1.6)	231 (1.0)
Maryland	0 (0.0)	*** (***)	3 (1.9)	203(22.0)	97 (1.9)	217 (1.3)
Massachusetts	0 (0.0)	*** (***)	2 (1.3)	*** (***)	98 (1.3)	226 (1.2)
Michigan	1 (0.9)	*** (***)	5 (2.1)	208 (7.4)	94 (1.9)	219 (1.9)
Minnesota	0 (0.0)	*** (***)	5 (2.3)	212 (9.2)	95 (2.3)	228 (1.0)
Mississippi	0 (0.0)	*** (***)	9 (3.1)	194 (6.9)	91 (3.1)	201 (1.2)
Missouri	0 (0.0)	*** (***)	6 (2.4)	216 (3.9)	94 (2.4)	221 (1.3)
Nebraska	0 (0.0)	*** (***)	5 (2.4)	235 (3.8)	95 (2.4)	224 (1.3)
New Hampshire	0 (0.0)	*** (***)	0 (0.0)	*** (***)	100 (0.0)	229 (1.1)
New Jersey	0 (0.0)	*** (***)	4 (2.2)	205(13.9)	96 (2.2)	227 (1.6)
New Mexico	1 (1.0)	*** (***)	10 (3.1)	213 (6.5)	89 (3.3)	212 (1.6)
New York	0 (0.0)	*** (***)	5 (2.5)	201 (8.0)	95 (2.5)	218 (1.5)
North Carolina	0 (0.4)	*** (***)	8 (2.5)	207 (4.1)	91 (2.5)	212 (1.2)
North Dakota	0 (0.0)	*** (***)	4 (2.1)	225 (3.1)	96 (2.1)	228 (0.8)
Ohio	0 (0.0)	*** (***)	1 (0.8)	*** (***)	99 (0.8)	218 (1.3)
Oklahoma	0 (0.0)	*** (***)	7 (1.6)	212 (4.6)	93 (1.6)	219 (1.1)
Pennsylvania	0 (0.0)	*** (***)	2 (1.4)	202(15.4)	98 (1.4)	224 (1.4)
Rhode Island	0 (0.0)	*** (***)	1 (0.9)	*** (***)	99 (0.9)	214 (1.6)
South Carolina	0 (0.0)	*** (***)	5 (2.3)	200 (9.8)	95 (2.3)	212 (1.2)
Tennessee	1 (0.9)	*** (***)	7 (2.4)	199 (4.7)	92 (2.6)	210 (1.4)
Texas	0 (0.0)	*** (***)	6 (2.1)	213 (5.4)	94 (2.1)	217 (1.3)
Utah	1 (1.0)	*** (***)	20 (3.3)	218 (2.1)	79 (3.5)	224 (1.1)
Virginia	0 (0.0)	*** (***)	1 (0.9)	*** (***)	99 (0.9)	220 (1.5)
West Virginia	0 (0.0)	*** (***)	2 (1.1)	*** (***)	98 (1.1)	214 (1.1)
Wisconsin	0 (0.0)	*** (***)	8 (2.6)	220 (3.0)	92 (2.6)	228 (1.2)
Wyoming	0 (0.0)	*** (***)	4 (1.7)	219 (6.4)	96 (1.7)	224 (1.0)
TERRITORY						
Guam	0 (0.0)	*** (***)	0 (0.0)	*** (***)	100 (0.0)	191 (0.9)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.10 | **Schools' Reports on the Degree of Students' Cutting of Classes in the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	5 (1.5)	249 (6.3)	37 (4.1)	261 (1.9)	58 (4.3)	272 (1.8)
Northeast	8 (4.2)	255(17.4)	14 (7.1)	238 (6.4)	78 (7.1)	272 (3.7)
Southeast	7 (4.1)	243 (7.0)	43 (9.3)	255 (3.4)	49(10.1)	264 (3.3)
Central	0 (0.0)	*** (***)	32 (8.7)	265 (4.2)	68 (8.7)	278 (1.4)
West	6 (2.5)	248(11.8)	51 (6.8)	267 (3.0)	43 (7.1)	272 (3.3)
STATES						
Alabama	6 (2.5)	239 (8.0)	39 (5.4)	252 (2.3)	55 (5.5)	252 (2.5)
Arizona	11 (3.3)	257 (2.9)	42 (4.5)	264 (1.7)	47 (4.6)	266 (2.7)
Arkansas	4 (2.1)	251 (9.0)	58 (5.1)	256 (1.6)	38 (4.7)	256 (2.4)
California	6 (2.1)	239 (9.7)	45 (4.8)	256 (2.6)	48 (4.5)	268 (2.8)
Colorado	6 (2.0)	252 (3.2)	56 (4.4)	271 (1.6)	38 (4.4)	275 (1.6)
Connecticut	6 (2.6)	260(11.8)	17 (4.3)	264 (6.3)	77 (4.6)	276 (1.4)
Delaware	16 (0.2)	260 (2.2)	45 (0.3)	260 (1.3)	39 (0.2)	265 (2.0)
Dist. Columbia	7 (0.2)	218 (2.0)	51 (0.6)	227 (1.3)	42 (0.6)	237 (1.4)
Florida	17 (3.6)	251 (5.2)	51 (5.6)	260 (2.1)	32 (4.9)	262 (2.7)
Georgia	7 (3.3)	255 (7.7)	42 (5.4)	256 (2.2)	51 (5.6)	262 (2.0)
Hawaii	11 (0.3)	249 (2.4)	57 (0.4)	253 (1.2)	32 (0.2)	265 (1.4)
Idaho	0 (0.0)	*** (***)	60 (3.8)	275 (1.1)	40 (3.8)	274 (1.1)
Indiana	3 (1.6)	241 (4.9)	30 (4.1)	263 (2.2)	67 (4.3)	273 (1.6)
Iowa	2 (1.3)	261(10.7)	21 (3.4)	280 (2.0)	77 (3.5)	284 (1.1)
Kentucky	4 (1.9)	250 (8.9)	35 (5.0)	258 (2.0)	61 (5.3)	264 (1.5)
Louisiana	5 (2.4)	237 (7.3)	42 (5.7)	243 (2.8)	52 (6.0)	255 (2.2)
Maine	0 (0.0)	*** (***)	27 (4.3)	278 (1.5)	73 (4.3)	278 (1.2)
Maryland	5 (2.1)	232 (7.1)	27 (4.7)	261 (3.5)	68 (5.0)	268 (1.6)
Massachusetts	2 (1.0)	*** (***)	27 (5.2)	264 (3.3)	72 (5.0)	276 (1.5)
Michigan	3 (1.6)	223 (2.2)	36 (5.3)	261 (2.7)	61 (5.4)	272 (2.1)
Minnesota	2 (1.2)	*** (***)	50 (5.2)	283 (1.3)	49 (5.3)	280 (1.4)
Mississippi	7 (2.8)	244 (6.0)	46 (4.8)	248 (2.2)	47 (4.1)	245 (1.9)
Missouri	5 (0.9)	247 (8.3)	35 (5.1)	269 (2.1)	60 (5.1)	273 (1.2)
Nebraska	0 (0.0)	*** (***)	26 (3.5)	273 (2.3)	74 (3.5)	279 (1.3)
New Hampshire	0 (0.0)	*** (***)	21 (3.2)	276 (2.0)	79 (3.2)	278 (1.0)
New Jersey	3 (1.6)	253 (4.5)	21 (3.4)	245 (5.0)	76 (3.6)	279 (2.0)
New Mexico	15 (3.5)	257 (3.3)	50 (3.6)	256 (1.3)	35 (3.7)	263 (1.2)
New York	10 (3.6)	236 (5.7)	40 (5.4)	257 (4.1)	50 (5.6)	279 (1.9)
North Carolina	4 (1.8)	260 (8.0)	40 (5.4)	254 (2.4)	57 (5.2)	260 (1.5)
North Dakota	5 (1.6)	284 (2.7)	31 (3.8)	281 (1.4)	65 (3.8)	284 (1.5)
Ohio	4 (2.1)	225(13.6)	23 (3.9)	266 (4.0)	74 (3.8)	271 (2.1)
Oklahoma	5 (1.6)	254 (9.1)	40 (5.4)	269 (1.9)	55 (5.4)	267 (1.5)
Pennsylvania	3 (1.6)	252(11.2)	40 (4.8)	265 (2.5)	57 (4.9)	276 (1.9)
Rhode Island	4 (0.0)	257 (3.2)	28 (0.2)	254 (1.0)	68 (0.2)	271 (1.0)
South Carolina	5 (2.2)	242 (3.9)	49 (5.3)	262 (1.8)	46 (4.9)	260 (1.5)
Tennessee	4 (1.6)	236 (5.8)	39 (4.8)	257 (2.3)	57 (4.7)	260 (2.1)
Texas	5 (1.7)	247 (3.7)	47 (4.6)	257 (2.1)	48 (4.4)	272 (2.0)
Utah	17 (3.2)	272 (1.6)	68 (4.3)	274 (1.0)	15 (3.4)	276 (2.2)
Virginia	10 (3.2)	258 (5.3)	48 (4.8)	265 (2.0)	42 (4.5)	272 (2.1)
West Virginia	2 (1.6)	*** (***)	39 (5.0)	257 (1.6)	59 (5.1)	259 (1.4)
Wisconsin	3 (1.5)	250 (5.8)	37 (4.9)	272 (2.6)	60 (4.7)	282 (1.6)
Wyoming	1 (0.8)	*** (***)	44 (3.8)	275 (1.2)	56 (3.9)	274 (1.4)
TERRITORIES						
Guam	61 (0.2)	236 (1.6)	26 (0.3)	238 (2.1)	13 (0.3)	216 (3.6)
Virgin Islands	79 (0.1)	223 (1.1)	2 (0.0)	*** (***)	19 (0.1)	215 (2.4)

TABLE A.11 | **Schools' Reports on the Degree of Physical Conflicts among Students in the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	11 (2.3)	208 (4.0)	59 (3.9)	218 (1.2)	30 (3.4)	224 (2.2)
Northeast	5 (2.8)	211 (5.4)	58 (8.3)	220 (3.7)	37 (8.0)	227 (4.4)
Southeast	5 (2.5)	191 (6.7)	66 (7.1)	207 (2.3)	29 (6.4)	216 (4.1)
Central	13 (5.6)	216 (9.2)	49 (8.5)	221 (2.0)	38 (8.2)	225 (3.6)
West	18 (5.5)	205 (4.0)	65 (7.3)	216 (1.6)	18 (4.8)	226 (6.1)
STATES						
Alabama	9 (3.0)	199 (3.0)	54 (5.5)	206 (2.2)	37 (4.9)	210 (2.8)
Arizona	20 (4.1)	206 (2.9)	65 (4.8)	215 (1.5)	15 (3.8)	217 (3.7)
Arkansas	18 (3.7)	200 (3.1)	54 (5.2)	210 (1.3)	28 (4.4)	213 (2.7)
California	14 (3.6)	195 (5.1)	67 (4.1)	205 (1.8)	19 (3.7)	222 (3.1)
Colorado	18 (3.1)	214 (2.6)	58 (4.9)	220 (1.4)	24 (3.9)	222 (2.0)
Connecticut	2 (1.4)	180 (3.5)	46 (5.3)	218 (2.1)	51 (5.2)	235 (1.5)
Delaware	31 (0.3)	216 (1.8)	47 (0.2)	217 (1.0)	22 (0.2)	216 (1.9)
Dist. Columbia	25 (0.2)	180 (1.2)	57 (0.3)	192 (0.7)	18 (0.3)	206 (1.6)
Florida	15 (3.5)	191 (3.9)	58 (5.6)	214 (2.1)	28 (4.4)	221 (2.3)
Georgia	15 (3.2)	210 (3.6)	52 (5.6)	211 (2.1)	34 (4.9)	222 (2.9)
Hawaii	15 (3.5)	207 (2.8)	68 (4.7)	212 (1.7)	17 (3.4)	224 (2.8)
Idaho	12 (3.4)	216 (2.5)	68 (5.0)	220 (1.2)	20 (4.1)	223 (2.1)
Indiana	6 (2.2)	211 (5.6)	63 (5.3)	219 (1.4)	31 (5.0)	224 (1.2)
Iowa	5 (2.1)	211 (4.5)	58 (4.9)	229 (1.5)	37 (4.5)	231 (1.2)
Kentucky	15 (3.9)	209 (4.1)	51 (4.2)	214 (1.5)	34 (3.8)	216 (1.5)
Louisiana	21 (3.7)	190 (3.8)	62 (4.7)	205 (1.7)	17 (3.5)	212 (4.2)
Maine	10 (2.8)	230 (5.8)	59 (6.2)	230 (1.5)	31 (6.0)	232 (1.8)
Maryland	15 (3.2)	200 (5.1)	53 (4.3)	216 (1.9)	31 (3.3)	226 (2.0)
Massachusetts	9 (2.4)	214 (6.2)	38 (4.1)	225 (2.0)	53 (4.7)	228 (1.7)
Michigan	21 (4.0)	206 (4.1)	60 (4.5)	220 (2.5)	20 (4.0)	228 (2.4)
Minnesota	14 (3.5)	220 (4.1)	48 (5.5)	227 (1.9)	38 (5.0)	229 (1.2)
Mississippi	17 (4.2)	200 (3.0)	67 (5.2)	199 (1.7)	17 (3.6)	205 (3.0)
Missouri	9 (2.5)	210 (3.5)	67 (4.8)	223 (1.7)	23 (4.3)	223 (2.5)
Nebraska	6 (2.4)	219 (6.3)	59 (5.1)	224 (1.8)	35 (4.9)	226 (2.6)
New Hampshire	8 (3.0)	224 (6.8)	48 (5.1)	228 (1.7)	44 (5.4)	231 (1.8)
New Jersey	7 (2.5)	209 (9.2)	44 (5.9)	224 (2.8)	48 (6.1)	231 (2.3)
New Mexico	16 (4.0)	207 (2.8)	57 (5.7)	212 (2.0)	26 (5.3)	215 (3.9)
New York	9 (2.6)	202 (4.2)	57 (5.3)	217 (1.9)	34 (5.6)	222 (3.5)
North Carolina	13 (2.3)	204 (3.8)	57 (4.9)	211 (1.6)	30 (4.4)	216 (2.9)
North Dakota	5 (2.4)	227 (2.6)	41 (5.1)	226 (1.3)	54 (5.4)	229 (1.2)
Ohio	19 (3.7)	206 (3.8)	49 (5.7)	216 (1.7)	33 (5.3)	226 (1.8)
Oklahoma	15 (3.5)	216 (3.4)	57 (4.3)	219 (1.5)	28 (4.5)	220 (1.5)
Pennsylvania	14 (3.0)	205 (6.8)	52 (5.1)	223 (2.1)	34 (5.3)	232 (1.4)
Rhode Island	10 (3.5)	200 (6.1)	62 (5.0)	215 (2.3)	28 (4.7)	217 (3.6)
South Carolina	12 (2.8)	204 (2.6)	68 (4.9)	211 (1.5)	20 (4.0)	215 (2.5)
Tennessee	14 (3.6)	201 (3.8)	66 (4.9)	211 (1.8)	21 (4.1)	211 (3.5)
Texas	10 (3.2)	209 (2.9)	55 (5.0)	214 (1.9)	35 (5.2)	222 (2.7)
Utah	18 (3.8)	216 (2.5)	65 (4.7)	224 (1.2)	17 (3.4)	226 (2.0)
Virginia	5 (1.8)	202 (1.8)	56 (4.6)	216 (2.1)	39 (4.4)	226 (2.4)
West Virginia	7 (2.0)	208 (2.4)	47 (4.5)	214 (1.7)	46 (4.6)	215 (1.5)
Wisconsin	12 (3.2)	218 (5.2)	53 (4.7)	228 (1.4)	35 (5.3)	231 (1.5)
Wyoming	13 (3.2)	221 (2.1)	57 (5.3)	224 (1.3)	31 (4.6)	226 (1.5)
TERRITORY						
Guam	10 (0.1)	192 (2.5)	65 (0.3)	193 (1.2)	25 (0.2)	188 (1.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.11 | **Schools' Reports on the Degree of Physical Conflicts among Students in the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (3.3)	256 (2.8)	64 (3.3)	268 (1.2)	15 (2.2)	274 (3.5)
Northeast	28 (7.8)	256 (6.4)	57 (8.6)	268 (4.2)	15 (6.1)	279 (9.8)
Southeast	25 (6.9)	257 (3.8)	59 (5.8)	258 (2.3)	16 (5.0)	262 (5.3)
Central	17 (6.4)	261 (9.2)	66 (5.5)	275 (1.6)	17 (3.0)	281 (2.7)
West	17 (6.0)	252 (4.5)	72 (6.7)	271 (2.2)	11 (4.1)	273 (6.8)
STATES						
Alabama	16 (3.4)	239 (4.6)	76 (4.0)	253 (1.9)	8 (2.3)	257 (3.8)
Arizona	20 (4.4)	257 (2.1)	74 (4.4)	266 (1.7)	6 (2.1)	274 (8.8)
Arkansas	15 (3.9)	254 (3.7)	69 (5.0)	256 (1.4)	16 (3.3)	255 (2.8)
California	19 (3.7)	253 (4.2)	60 (4.4)	259 (2.1)	21 (3.9)	272 (4.6)
Colorado	19 (4.0)	262 (2.4)	67 (4.8)	273 (1.4)	15 (3.6)	274 (3.2)
Connecticut	19 (3.8)	258 (4.8)	50 (5.3)	274 (2.7)	31 (4.7)	283 (2.0)
Delaware	37 (0.2)	264 (1.4)	57 (0.2)	261 (1.4)	5 (0.0)	258 (7.3)
Dist. Columbia	16 (0.5)	222 (1.9)	71 (0.6)	228 (1.1)	13 (0.7)	258 (1.8)
Florida	28 (4.6)	254 (3.5)	63 (4.9)	260 (1.7)	9 (3.0)	267 (5.2)
Georgia	23 (4.9)	255 (3.1)	60 (5.2)	258 (1.9)	17 (3.5)	268 (3.3)
Hawaii	40 (0.3)	255 (1.6)	52 (0.3)	258 (1.1)	8 (0.2)	263 (2.4)
Idaho	17 (2.5)	274 (1.8)	58 (3.6)	275 (1.1)	25 (3.4)	274 (1.1)
Indiana	14 (2.8)	263 (3.1)	73 (3.9)	270 (1.3)	14 (3.7)	275 (3.9)
Iowa	13 (3.5)	273 (3.3)	60 (4.5)	284 (1.3)	27 (4.2)	285 (1.8)
Kentucky	16 (3.6)	257 (3.5)	63 (5.1)	261 (1.3)	21 (4.2)	268 (3.4)
Louisiana	27 (4.5)	239 (3.5)	60 (5.0)	252 (2.1)	13 (3.5)	254 (6.8)
Maine	10 (3.5)	272 (2.8)	57 (5.0)	278 (1.4)	33 (4.8)	280 (1.9)
Maryland	32 (4.3)	256 (3.1)	58 (4.8)	265 (2.1)	10 (2.5)	285 (5.7)
Massachusetts	15 (3.7)	257 (5.7)	55 (5.8)	273 (1.8)	29 (4.7)	279 (2.3)
Michigan	26 (3.2)	253 (3.4)	57 (4.4)	270 (1.7)	16 (4.2)	277 (5.8)
Minnesota	9 (2.8)	282 (3.4)	60 (3.9)	283 (1.3)	31 (4.0)	278 (1.7)
Mississippi	19 (4.3)	238 (2.8)	72 (5.2)	248 (1.7)	9 (3.0)	246 (3.3)
Missouri	17 (3.6)	267 (3.3)	65 (4.9)	270 (1.6)	18 (4.2)	275 (1.8)
Nebraska	7 (2.2)	266 (4.9)	64 (4.7)	278 (1.3)	29 (4.2)	280 (2.0)
New Hampshire	11 (1.9)	269 (1.3)	62 (4.1)	277 (1.3)	27 (3.8)	283 (2.0)
New Jersey	18 (3.6)	252 (5.0)	55 (4.9)	271 (2.4)	27 (4.5)	284 (2.6)
New Mexico	27 (4.0)	257 (2.3)	65 (4.4)	260 (1.0)	8 (2.4)	254 (6.6)
New York	17 (4.3)	240 (7.0)	62 (5.6)	267 (2.9)	21 (4.0)	282 (3.9)
North Carolina	26 (4.4)	252 (2.6)	59 (4.7)	260 (1.4)	15 (3.3)	258 (2.9)
North Dakota	1 (1.0)	*** (***)	41 (4.0)	280 (1.3)	58 (4.2)	285 (1.5)
Ohio	13 (3.5)	250 (7.2)	69 (4.6)	269 (2.4)	18 (4.0)	276 (3.2)
Oklahoma	12 (3.2)	269 (4.2)	64 (4.6)	267 (1.6)	24 (4.1)	268 (2.0)
Pennsylvania	16 (3.6)	257 (3.1)	60 (4.5)	271 (2.0)	23 (4.0)	281 (2.5)
Rhode Island	21 (0.2)	255 (1.7)	64 (0.2)	268 (0.9)	15 (0.1)	272 (2.4)
South Carolina	16 (3.5)	258 (3.2)	70 (4.6)	260 (1.4)	15 (4.0)	261 (3.3)
Tennessee	22 (4.1)	256 (3.4)	66 (5.0)	258 (2.0)	11 (3.3)	260 (5.2)
Texas	22 (3.9)	261 (3.2)	59 (5.2)	264 (2.1)	19 (4.1)	266 (3.9)
Utah	17 (3.3)	270 (1.8)	67 (4.1)	274 (1.0)	16 (3.8)	278 (2.4)
Virginia	21 (4.4)	261 (3.7)	66 (4.9)	269 (1.6)	12 (2.7)	269 (5.0)
West Virginia	18 (3.7)	256 (2.0)	68 (4.3)	258 (1.3)	15 (3.4)	264 (1.6)
Wisconsin	15 (3.3)	280 (4.3)	62 (4.9)	279 (1.6)	23 (4.5)	284 (3.0)
Wyoming	21 (2.9)	271 (1.4)	55 (3.5)	276 (1.1)	24 (2.7)	275 (2.4)
TERRITORIES						
Guam	34 (0.2)	234 (2.7)	66 (0.2)	234 (1.2)	0 (0.0)	*** (***)
Virgin Islands	61 (0.1)	226 (1.4)	20 (0.1)	215 (1.6)	19 (0.1)	215 (2.4)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.12 | **Schools' Reports on the Degree of Teacher Absenteeism in the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	5 (1.4)	201 (6.9)	33 (3.3)	216 (2.2)	63 (3.5)	219 (1.4)
Northeast	2 (1.9)	*** (***)	29 (7.4)	223 (6.3)	69 (7.7)	223 (3.4)
Southeast	7 (3.5)	206(13.4)	40 (5.7)	206 (3.8)	54 (5.5)	212 (2.9)
Central	1 (0.9)	*** (***)	31 (5.0)	220 (4.1)	68 (4.9)	223 (3.0)
West	8 (3.5)	200(13.1)	31 (7.4)	217 (3.4)	61 (8.1)	218 (2.1)
STATES						
Alabama	10 (2.9)	203 (4.0)	41 (5.6)	206 (2.8)	49 (5.1)	209 (2.2)
Arizona	7 (2.5)	213 (4.7)	40 (4.8)	210 (2.4)	53 (4.8)	216 (1.9)
Arkansas	10 (2.7)	202 (4.2)	34 (4.5)	208 (2.0)	56 (4.8)	211 (1.6)
California	6 (2.4)	188 (5.3)	37 (5.2)	199 (3.4)	57 (5.2)	214 (1.8)
Colorado	2 (1.2)	*** (***)	32 (4.4)	216 (2.2)	66 (4.4)	222 (1.2)
Connecticut	3 (1.4)	204(10.4)	26 (4.3)	219 (3.7)	71 (4.5)	230 (1.3)
Delaware	2 (0.1)	*** (***)	41 (0.2)	216 (1.6)	57 (0.2)	217 (0.9)
Dist. Columbia	7 (0.1)	179 (2.4)	60 (0.3)	190 (0.7)	33 (0.3)	196 (1.3)
Florida	9 (2.9)	197 (5.9)	35 (4.5)	212 (2.2)	56 (5.0)	215 (2.6)
Georgia	8 (2.9)	207 (7.2)	42 (4.9)	212 (2.5)	50 (5.2)	217 (2.4)
Hawaii	5 (2.4)	204 (4.4)	36 (5.2)	214 (2.2)	59 (5.1)	213 (2.0)
Idaho	4 (2.1)	226 (4.9)	34 (4.8)	220 (1.4)	62 (5.0)	220 (1.3)
Indiana	3 (1.5)	200 (8.3)	44 (4.4)	221 (1.5)	54 (4.6)	220 (1.5)
Iowa	1 (0.5)	*** (***)	28 (4.4)	228 (2.0)	72 (4.5)	230 (1.4)
Kentucky	6 (2.1)	212 (5.1)	31 (4.5)	209 (1.9)	63 (4.2)	216 (1.3)
Louisiana	20 (4.3)	195 (6.2)	54 (5.6)	203 (2.1)	26 (4.6)	210 (3.1)
Maine	4 (2.2)	230 (3.3)	19 (5.1)	230 (2.3)	77 (5.2)	231 (1.3)
Maryland	4 (2.1)	212 (4.5)	31 (4.4)	209 (3.4)	64 (4.8)	220 (1.9)
Massachusetts	2 (1.4)	188 (5.1)	27 (4.5)	227 (3.6)	70 (4.4)	226 (1.3)
Michigan	5 (2.3)	206 (9.3)	37 (5.1)	216 (2.7)	58 (5.1)	221 (3.0)
Minnesota	2 (1.6)	*** (***)	27 (5.0)	229 (2.4)	71 (5.1)	227 (1.3)
Mississippi	16 (3.7)	200 (3.9)	51 (5.1)	198 (2.3)	33 (4.4)	204 (2.2)
Missouri	4 (1.4)	194 (6.7)	33 (4.6)	220 (2.1)	63 (4.8)	224 (1.6)
Nebraska	0 (0.0)	*** (***)	28 (4.6)	228 (2.3)	72 (4.6)	223 (1.6)
New Hampshire	4 (2.2)	225(12.1)	35 (5.3)	232 (2.1)	61 (5.4)	228 (1.3)
New Jersey	3 (1.7)	192 (6.2)	27 (4.8)	225 (3.5)	71 (4.9)	228 (1.9)
New Mexico	9 (2.7)	209 (3.8)	38 (6.2)	213 (2.6)	53 (6.4)	211 (1.7)
New York	7 (2.5)	187 (7.1)	31 (5.3)	217 (2.6)	62 (5.5)	221 (2.0)
North Carolina	8 (2.7)	210 (5.0)	44 (5.2)	210 (1.7)	48 (5.1)	213 (2.0)
North Dakota	2 (1.3)	*** (***)	17 (3.8)	225 (2.3)	81 (4.1)	228 (0.9)
Ohio	2 (1.4)	194 (3.7)	35 (4.9)	214 (1.8)	62 (4.9)	220 (1.9)
Oklahoma	4 (1.8)	212 (3.2)	33 (4.6)	217 (2.0)	63 (4.5)	220 (1.3)
Pennsylvania	5 (2.2)	213(14.1)	24 (4.2)	219 (3.5)	71 (4.6)	226 (1.7)
Rhode Island	4 (1.8)	193 (9.4)	21 (4.5)	215 (4.6)	76 (4.8)	215 (1.9)
South Carolina	10 (3.2)	204 (4.9)	45 (5.3)	209 (1.9)	45 (5.5)	214 (2.0)
Tennessee	8 (2.6)	197 (3.9)	41 (4.8)	208 (2.4)	51 (5.0)	212 (2.0)
Texas	10 (3.8)	211 (7.1)	48 (5.5)	213 (2.1)	42 (5.7)	223 (2.0)
Utah	2 (1.4)	228 (4.3)	41 (5.0)	224 (1.6)	57 (4.9)	222 (1.2)
Virginia	3 (1.7)	202 (3.4)	28 (4.3)	214 (2.4)	69 (4.6)	222 (1.9)
West Virginia	9 (2.3)	208 (2.9)	47 (5.2)	215 (1.9)	44 (5.2)	214 (1.3)
Wisconsin	4 (1.9)	210(14.4)	27 (4.7)	225 (2.2)	69 (5.0)	230 (1.2)
Wyoming	4 (2.1)	227 (4.1)	27 (4.5)	223 (1.6)	68 (4.7)	224 (1.2)
TERRITORY						
Guam	6 (0.1)	195 (3.7)	51 (0.2)	189 (1.2)	42 (0.2)	193 (1.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.12 | **Schools' Reports on the Degree of Teacher Absenteeism in the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	7 (1.6)	252 (4.4)	50 (3.9)	266 (1.6)	43 (3.5)	269 (2.0)
Northeast	5 (2.8)	241 (4.1)	46 (5.6)	267 (4.1)	49 (4.8)	268 (3.7)
Southeast	11 (3.0)	254 (4.9)	51 (4.7)	259 (2.1)	39 (4.3)	259 (3.1)
Central	6 (4.6)	*** (***)	43(11.3)	273 (3.4)	51 (8.8)	276 (4.3)
West	6 (1.3)	248 (3.2)	57 (7.6)	268 (2.4)	37 (8.0)	272 (4.3)
STATES						
Alabama	9 (2.3)	258 (3.7)	43 (5.5)	251 (2.6)	48 (5.4)	251 (2.9)
Arizona	10 (2.8)	263 (5.8)	47 (5.4)	264 (1.8)	43 (5.3)	265 (2.6)
Arkansas	13 (3.7)	255 (4.2)	52 (5.6)	255 (1.9)	35 (4.7)	257 (1.9)
California	7 (2.6)	254 (6.8)	38 (5.1)	255 (2.7)	55 (5.7)	265 (2.8)
Colorado	6 (2.3)	253 (5.2)	40 (4.8)	273 (2.1)	54 (4.5)	272 (1.4)
Connecticut	5 (2.2)	271 (9.1)	46 (5.4)	269 (3.1)	49 (5.3)	278 (2.2)
Delaware	6 (0.1)	251 (3.7)	42 (0.2)	264 (1.5)	52 (0.2)	262 (1.4)
Dist. Columbia	8 (0.2)	233 (2.2)	37 (0.5)	226 (1.4)	54 (0.5)	234 (1.1)
Florida	18 (4.0)	257 (5.2)	57 (5.0)	257 (1.8)	25 (4.1)	267 (3.4)
Georgia	12 (3.2)	255 (4.1)	55 (5.8)	257 (2.1)	34 (5.4)	262 (3.0)
Hawaii	5 (0.2)	258 (2.2)	65 (0.3)	254 (1.2)	30 (0.2)	262 (1.1)
Idaho	8 (2.0)	277 (4.0)	42 (3.4)	276 (1.3)	50 (3.6)	273 (1.0)
Indiana	7 (2.6)	266 (3.3)	52 (5.5)	268 (1.8)	41 (5.2)	272 (2.3)
Iowa	5 (2.2)	273 (8.1)	39 (4.7)	284 (1.6)	56 (4.9)	283 (1.4)
Kentucky	13 (3.5)	258 (3.6)	43 (4.8)	263 (1.8)	44 (5.2)	262 (1.9)
Louisiana	20 (4.4)	241 (4.3)	55 (4.5)	252 (2.1)	25 (3.9)	249 (3.7)
Maine	3 (0.9)	274 (1.7)	41 (5.0)	278 (1.2)	56 (5.0)	278 (1.5)
Maryland	6 (2.4)	262 (8.5)	48 (5.2)	259 (2.5)	45 (5.0)	270 (2.5)
Massachusetts	4 (1.9)	270(14.5)	49 (4.8)	267 (2.5)	47 (4.8)	279 (1.6)
Michigan	9 (3.0)	265 (5.4)	50 (5.9)	267 (2.7)	41 (5.9)	267 (3.4)
Minnesota	6 (3.2)	285 (3.2)	47 (4.9)	282 (1.6)	47 (5.1)	280 (1.4)
Mississippi	17 (3.3)	243 (2.6)	53 (4.6)	246 (2.0)	29 (4.7)	245 (3.3)
Missouri	7 (2.6)	268 (5.0)	39 (4.9)	269 (2.3)	54 (4.7)	272 (1.4)
Nebraska	6 (1.9)	275 (4.1)	30 (4.7)	272 (1.8)	65 (4.7)	281 (1.4)
New Hampshire	8 (2.5)	280 (3.1)	50 (3.9)	277 (1.4)	42 (3.9)	279 (1.5)
New Jersey	8 (3.1)	263(11.1)	49 (5.9)	263 (3.6)	43 (5.9)	282 (2.0)
New Mexico	22 (3.3)	257 (2.7)	49 (4.5)	259 (1.4)	29 (3.8)	260 (1.7)
New York	10 (3.5)	241 (8.0)	56 (5.6)	262 (3.4)	34 (5.3)	280 (2.6)
North Carolina	16 (3.8)	259 (4.5)	44 (5.0)	258 (2.0)	40 (5.1)	257 (1.9)
North Dakota	0 (0.0)	*** (***)	23 (3.9)	282 (1.8)	77 (3.9)	283 (1.4)
Ohio	10 (3.1)	254 (8.7)	45 (6.6)	265 (2.4)	45 (5.6)	274 (3.0)
Oklahoma	6 (2.5)	258 (9.0)	45 (5.5)	267 (1.9)	50 (5.6)	269 (1.6)
Pennsylvania	10 (3.2)	257 (7.2)	45 (5.0)	269 (2.1)	45 (5.4)	275 (1.7)
Rhode Island	9 (0.1)	253 (2.2)	56 (0.2)	268 (0.8)	36 (0.2)	265 (1.5)
South Carolina	25 (4.9)	253 (2.7)	52 (5.3)	262 (1.7)	23 (4.9)	263 (3.3)
Tennessee	5 (2.4)	252(11.3)	62 (5.1)	257 (1.8)	33 (5.1)	260 (2.9)
Texas	17 (3.5)	257 (4.3)	54 (4.8)	264 (2.2)	28 (4.6)	267 (3.0)
Utah	1 (0.9)	*** (***)	50 (5.2)	274 (1.2)	50 (5.3)	274 (1.2)
Virginia	8 (2.6)	257 (5.5)	52 (5.2)	267 (1.9)	41 (5.0)	269 (2.5)
West Virginia	21 (4.2)	257 (1.7)	47 (5.6)	258 (1.5)	32 (5.0)	260 (1.7)
Wisconsin	6 (2.5)	273 (6.5)	28 (3.8)	274 (2.9)	66 (4.1)	279 (1.9)
Wyoming	1 (0.8)	*** (***)	50 (4.1)	276 (1.2)	49 (3.9)	273 (1.5)
TERRITORIES						
Guam	44 (0.3)	240 (1.5)	56 (0.3)	229 (1.8)	0 (0.0)	*** (***)
Virgin Islands	53 (0.2)	219 (1.2)	0 (0.0)	*** (***)	47 (0.2)	225 (1.4)

TABLE A.13 | **Schools' Reports on the Degree of Racial or Cultural Conflicts in the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	2 (0.7)	202 (6.7)	26 (3.3)	212 (2.4)	73 (3.3)	220 (1.3)
Northeast	0 (0.0)	*** (***)	23 (5.9)	222 (6.3)	77 (5.9)	223 (2.9)
Southeast	0 (0.0)	*** (***)	26 (5.1)	211 (2.4)	74 (5.1)	208 (2.5)
Central	1 (1.4)	*** (***)	25 (8.0)	213 (7.2)	74 (8.8)	225 (2.6)
West	4 (2.0)	199 (6.6)	29 (6.1)	207 (3.9)	67 (5.9)	222 (2.2)
STATES						
Alabama	3 (1.7)	207 (3.5)	26 (4.4)	202 (2.8)	71 (4.7)	209 (2.0)
Arizona	4 (1.9)	200 (2.0)	38 (4.5)	211 (1.9)	58 (4.9)	217 (1.7)
Arkansas	4 (1.9)	193 (2.6)	20 (4.0)	205 (2.8)	76 (4.5)	210 (1.4)
California	6 (2.3)	195 (5.6)	44 (5.2)	203 (3.2)	50 (4.8)	211 (1.8)
Colorado	2 (1.3)	203 (4.0)	31 (4.0)	215 (2.2)	67 (3.7)	223 (1.2)
Connecticut	1 (0.8)	*** (***)	16 (3.7)	211 (4.5)	83 (3.7)	229 (1.2)
Delaware	8 (0.1)	225 (3.5)	40 (0.3)	216 (1.5)	53 (0.3)	216 (1.1)
Dist. Columbia	2 (0.1)	*** (***)	14 (0.2)	209 (1.9)	85 (0.2)	189 (0.6)
Florida	2 (1.2)	184 (8.1)	31 (5.0)	209 (2.7)	67 (5.1)	215 (1.8)
Georgia	5 (3.1)	205(11.6)	26 (4.1)	213 (2.5)	69 (5.3)	215 (1.8)
Hawaii	5 (2.5)	198 (6.9)	38 (5.5)	213 (2.0)	56 (5.8)	214 (1.9)
Idaho	2 (1.1)	*** (***)	16 (3.6)	216 (1.7)	83 (3.5)	221 (1.1)
Indiana	2 (1.3)	*** (***)	20 (4.4)	217 (3.4)	78 (4.2)	220 (1.2)
Iowa	1 (0.7)	*** (***)	9 (2.4)	221 (4.0)	91 (2.3)	230 (1.1)
Kentucky	3 (1.5)	215 (6.0)	21 (3.7)	212 (3.4)	76 (3.8)	214 (1.0)
Louisiana	2 (1.5)	*** (***)	36 (5.2)	206 (2.4)	62 (5.2)	203 (2.0)
Maine	1 (1.1)	*** (***)	7 (3.0)	227 (3.8)	92 (3.1)	231 (1.1)
Maryland	3 (1.7)	213 (9.7)	23 (4.1)	216 (3.6)	74 (4.6)	217 (1.8)
Massachusetts	2 (1.2)	*** (***)	18 (4.6)	223 (5.2)	80 (4.6)	227 (1.2)
Michigan	0 (0.0)	*** (***)	25 (4.1)	217 (2.7)	75 (4.1)	219 (2.3)
Minnesota	3 (1.8)	*** (***)	27 (4.2)	222 (2.2)	71 (4.1)	230 (0.9)
Mississippi	8 (2.5)	197 (6.1)	22 (3.8)	201 (3.2)	70 (4.2)	200 (1.4)
Missouri	2 (1.3)	208(13.7)	20 (4.9)	219 (3.2)	77 (5.1)	222 (1.5)
Nebraska	1 (1.3)	*** (***)	21 (3.8)	217 (3.4)	78 (4.0)	226 (1.6)
New Hampshire	0 (0.0)	*** (***)	9 (2.9)	235 (3.3)	91 (2.9)	228 (1.2)
New Jersey	2 (1.4)	*** (***)	18 (4.1)	222 (5.0)	80 (4.2)	227 (1.7)
New Mexico	6 (2.4)	207 (4.2)	36 (5.1)	214 (2.8)	59 (5.1)	211 (2.2)
New York	3 (1.9)	207 (4.5)	24 (4.2)	218 (2.7)	73 (4.5)	218 (1.8)
North Carolina	6 (2.3)	209 (5.7)	32 (4.0)	210 (2.0)	63 (4.3)	212 (1.6)
North Dakota	2 (1.5)	*** (***)	7 (2.4)	224 (3.1)	91 (3.3)	228 (0.8)
Ohio	1 (1.2)	*** (***)	27 (4.1)	212 (2.6)	72 (4.2)	219 (1.4)
Oklahoma	2 (1.3)	*** (***)	19 (3.7)	221 (2.4)	79 (3.8)	219 (1.1)
Pennsylvania	1 (0.8)	*** (***)	21 (3.7)	222 (4.9)	78 (3.7)	224 (1.5)
Rhode Island	2 (1.2)	*** (***)	18 (4.1)	210 (3.6)	80 (4.3)	215 (1.9)
South Carolina	2 (1.1)	*** (***)	33 (5.4)	211 (2.4)	65 (5.4)	212 (1.7)
Tennessee	4 (2.3)	194 (9.5)	22 (3.7)	216 (3.0)	74 (4.1)	209 (1.7)
Texas	3 (1.9)	206 (3.3)	22 (4.1)	214 (2.4)	75 (4.3)	218 (1.6)
Utah	2 (1.5)	*** (***)	23 (4.4)	219 (2.2)	75 (4.3)	225 (1.1)
Virginia	1 (0.6)	*** (***)	21 (3.8)	217 (2.8)	78 (3.9)	220 (1.8)
West Virginia	0 (0.0)	*** (***)	6 (2.3)	218 (9.1)	94 (2.3)	214 (1.0)
Wisconsin	1 (0.8)	*** (***)	17 (3.6)	219 (3.7)	82 (3.7)	229 (1.2)
Wyoming	2 (1.1)	*** (***)	11 (3.3)	222 (2.3)	87 (3.4)	225 (1.0)
TERRITORY						
Guam	5 (0.1)	197 (1.7)	44 (0.2)	192 (1.5)	51 (0.2)	190 (1.0)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.13 | **Schools' Reports on the Degree of Racial or Cultural Conflicts in the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	3 (1.5)	258 (5.2)	42 (4.5)	266 (2.0)	54 (4.5)	268 (1.6)
Northeast	3 (2.1)	245 (2.7)	43 (8.7)	263 (4.3)	54 (8.5)	270 (4.7)
Southeast	1 (1.2)	*** (***)	40(11.6)	258 (3.0)	58(11.7)	259 (2.6)
Central	7 (5.3)	*** (***)	36 (6.7)	271 (5.4)	57 (6.7)	276 (1.7)
West	3 (1.5)	262 (5.2)	49 (8.3)	269 (3.2)	48 (8.4)	267 (3.2)
STATES						
Alabama	5 (2.0)	247(12.1)	37 (4.9)	255 (2.7)	58 (5.0)	250 (2.3)
Arizona	6 (1.7)	248 (3.8)	54 (4.9)	267 (1.7)	40 (5.1)	263 (3.2)
Arkansas	4 (1.3)	249 (3.5)	35 (3.6)	251 (2.5)	61 (3.7)	259 (1.6)
California	8 (2.8)	268 (2.6)	44 (5.0)	258 (2.5)	48 (4.9)	261 (2.9)
Colorado	9 (2.6)	262 (3.2)	46 (4.9)	271 (1.9)	45 (4.7)	274 (1.7)
Connecticut	5 (2.1)	253(10.9)	38 (5.3)	270 (3.4)	58 (5.4)	277 (1.8)
Delaware	3 (0.1)	266 (4.3)	59 (0.2)	263 (1.3)	38 (0.2)	261 (1.4)
Dist. Columbia	4 (0.4)	*** (***)	13 (0.3)	241 (2.0)	84 (0.5)	229 (0.9)
Florida	8 (3.1)	260 (4.0)	59 (4.8)	258 (2.1)	33 (4.7)	262 (2.2)
Georgia	14 (3.6)	253 (3.4)	38 (5.5)	260 (2.3)	48 (5.4)	259 (1.7)
Hawaii	14 (0.3)	249 (2.3)	66 (0.3)	256 (1.1)	19 (0.1)	267 (1.6)
Idaho	3 (1.1)	272 (1.4)	34 (3.9)	274 (1.9)	63 (3.7)	275 (0.9)
Indiana	2 (1.1)	*** (***)	32 (3.7)	264 (2.0)	66 (3.7)	272 (1.7)
Iowa	2 (1.6)	*** (***)	31 (4.0)	282 (2.3)	67 (4.0)	283 (1.1)
Kentucky	1 (1.0)	*** (***)	33 (4.9)	262 (2.2)	65 (4.9)	262 (1.4)
Louisiana	10 (2.8)	244 (3.4)	42 (4.5)	250 (2.7)	48 (4.8)	249 (2.4)
Maine	0 (0.0)	*** (***)	20 (4.2)	279 (1.9)	80 (4.2)	278 (1.2)
Maryland	3 (1.9)	261(17.5)	44 (5.3)	264 (2.6)	53 (5.1)	264 (2.3)
Massachusetts	4 (2.0)	248 (3.6)	29 (4.4)	269 (3.5)	67 (4.5)	275 (1.6)
Michigan	4 (2.0)	268 (9.2)	27 (4.1)	268 (3.7)	69 (4.3)	266 (2.0)
Minnesota	3 (2.4)	*** (***)	34 (4.9)	283 (2.1)	63 (4.5)	281 (1.2)
Mississippi	8 (2.9)	246 (3.5)	49 (4.7)	250 (2.0)	42 (4.5)	240 (1.9)
Missouri	1 (0.9)	*** (***)	39 (5.2)	270 (2.7)	60 (5.0)	271 (1.1)
Nebraska	2 (1.5)	*** (***)	36 (4.2)	273 (1.7)	62 (3.9)	281 (1.3)
New Hampshire	0 (0.0)	*** (***)	21 (2.2)	276 (1.9)	79 (2.2)	278 (1.2)
New Jersey	3 (2.0)	262(11.9)	25 (4.7)	269 (3.6)	71 (5.1)	272 (2.2)
New Mexico	8 (2.8)	264 (5.6)	66 (4.3)	258 (1.1)	26 (3.9)	259 (2.4)
New York	6 (2.8)	239 (8.8)	42 (5.1)	265 (3.9)	52 (4.6)	269 (3.3)
North Carolina	3 (1.2)	257(11.1)	54 (5.1)	258 (1.5)	43 (5.0)	257 (2.0)
North Dakota	3 (1.1)	275 (3.3)	14 (2.0)	277 (2.0)	82 (2.3)	284 (1.3)
Ohio	4 (1.8)	259 (6.6)	34 (4.4)	259 (2.4)	62 (4.6)	273 (2.2)
Oklahoma	7 (2.6)	273 (5.1)	35 (5.4)	269 (1.7)	58 (5.5)	266 (1.7)
Pennsylvania	1 (0.7)	*** (***)	29 (5.0)	268 (2.7)	70 (5.0)	272 (1.9)
Rhode Island	8 (0.0)	249 (2.4)	34 (0.2)	260 (1.1)	58 (0.2)	271 (1.0)
South Carolina	2 (1.5)	*** (***)	60 (5.0)	263 (1.5)	38 (4.8)	255 (2.1)
Tennessee	6 (2.9)	255 (4.7)	37 (5.5)	262 (1.9)	56 (5.8)	256 (2.1)
Texas	10 (3.1)	255 (5.6)	48 (4.9)	266 (2.1)	42 (4.8)	264 (2.3)
Utah	4 (1.7)	265 (4.4)	35 (4.0)	272 (1.2)	61 (4.0)	275 (1.0)
Virginia	5 (2.3)	263 (6.8)	51 (5.2)	268 (2.0)	43 (4.7)	267 (2.0)
West Virginia	2 (1.3)	*** (***)	24 (4.1)	258 (1.9)	75 (4.1)	258 (1.2)
Wisconsin	1 (1.1)	*** (***)	33 (4.5)	270 (2.9)	66 (4.6)	281 (1.5)
Wyoming	0 (0.3)	*** (***)	22 (1.9)	272 (1.6)	77 (1.9)	275 (1.0)
TERRITORIES						
Guam	61 (0.2)	236 (1.6)	22 (0.3)	221 (2.1)	17 (0.3)	244 (3.2)
Virgin Islands	16 (0.1)	213 (2.2)	2 (0.0)	*** (***)	82 (0.1)	223 (1.2)

TABLE A.14 | **Schools' Reports on the Degree of Student Health Problems in the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	12 (1.9)	206 (4.2)	50 (3.1)	218 (1.5)	38 (3.6)	220 (1.9)
Northeast	16 (5.5)	209 (7.7)	40 (6.9)	228 (3.6)	43 (9.8)	224 (4.2)
Southeast	11 (3.5)	205(12.1)	51 (5.1)	208 (2.8)	38 (5.1)	212 (3.3)
Central	4 (2.2)	203 (8.0)	52 (7.0)	223 (1.9)	43 (7.7)	223 (3.2)
West	17 (3.8)	206 (6.7)	55 (6.2)	217 (2.9)	28 (6.6)	222 (3.9)
STATES						
Alabama	7 (2.6)	199 (4.1)	54 (5.5)	207 (2.5)	39 (5.4)	208 (2.6)
Arizona	23 (4.3)	210 (3.2)	52 (5.0)	213 (2.1)	24 (4.5)	219 (2.3)
Arkansas	9 (3.0)	203 (3.9)	55 (4.5)	208 (1.4)	36 (4.8)	212 (2.3)
California	22 (3.4)	191 (3.1)	52 (4.7)	208 (2.3)	26 (4.7)	216 (3.2)
Colorado	12 (2.8)	208 (2.9)	49 (4.5)	221 (1.5)	39 (4.7)	222 (2.2)
Connecticut	6 (1.6)	202 (4.4)	37 (5.2)	223 (3.0)	57 (5.3)	231 (1.8)
Delaware	3 (0.0)	215 (3.0)	69 (0.3)	215 (1.1)	28 (0.3)	220 (1.3)
Dist. Columbia	21 (0.3)	184 (1.8)	43 (0.3)	192 (0.9)	36 (0.3)	194 (0.9)
Florida	11 (3.1)	200 (5.1)	53 (5.3)	212 (2.1)	36 (5.3)	217 (3.0)
Georgia	10 (2.3)	209 (3.5)	51 (5.0)	211 (1.9)	39 (4.9)	219 (2.8)
Hawaii	13 (3.3)	205 (4.2)	57 (4.9)	213 (1.4)	30 (4.8)	217 (2.5)
Idaho	6 (2.0)	221 (4.9)	53 (4.6)	219 (1.3)	41 (5.0)	222 (1.7)
Indiana	7 (2.3)	220 (6.8)	52 (4.3)	219 (1.6)	42 (4.5)	221 (1.5)
Iowa	10 (2.7)	217 (2.9)	43 (4.2)	231 (1.6)	47 (4.5)	230 (1.5)
Kentucky	14 (3.2)	203 (2.7)	47 (5.0)	214 (1.5)	40 (5.0)	217 (1.5)
Louisiana	12 (3.1)	194 (4.9)	51 (4.7)	200 (2.2)	37 (4.8)	210 (2.8)
Maine	4 (1.7)	231 (3.0)	51 (5.3)	229 (1.6)	45 (5.3)	233 (1.5)
Maryland	13 (3.2)	206 (4.5)	48 (5.1)	218 (2.2)	39 (5.1)	219 (3.4)
Massachusetts	5 (1.9)	192 (3.8)	36 (5.4)	224 (2.8)	59 (5.6)	229 (1.6)
Michigan	8 (2.5)	214 (4.8)	53 (4.8)	216 (2.1)	40 (4.7)	223 (4.1)
Minnesota	10 (3.4)	225 (5.5)	41 (4.7)	225 (1.9)	49 (4.7)	230 (1.0)
Mississippi	11 (2.9)	198 (5.2)	55 (4.5)	199 (1.9)	34 (4.6)	203 (2.3)
Missouri	10 (3.4)	218 (4.0)	50 (5.2)	222 (1.8)	40 (5.2)	222 (2.6)
Nebraska	3 (1.8)	227 (7.3)	51 (4.7)	224 (1.6)	45 (4.9)	225 (2.1)
New Hampshire	5 (2.4)	227 (9.8)	57 (5.6)	228 (1.6)	38 (5.1)	231 (1.5)
New Jersey	3 (1.6)	196(10.6)	38 (4.7)	222 (3.5)	60 (4.9)	230 (1.8)
New Mexico	23 (3.9)	204 (2.7)	37 (5.0)	214 (2.6)	40 (5.5)	214 (2.6)
New York	14 (3.3)	204 (4.3)	39 (5.4)	215 (3.0)	47 (5.7)	223 (2.0)
North Carolina	9 (2.9)	203 (4.7)	62 (4.4)	212 (1.6)	29 (4.2)	213 (2.2)
North Dakota	2 (1.3)	*** (***)	34 (4.4)	226 (1.3)	64 (4.5)	229 (1.1)
Ohio	7 (2.4)	207 (1.9)	45 (4.6)	213 (2.2)	48 (4.6)	224 (1.7)
Oklahoma	4 (1.7)	209 (2.4)	53 (4.8)	220 (1.5)	43 (4.9)	218 (1.7)
Pennsylvania	13 (2.6)	198 (4.9)	44 (4.3)	226 (1.9)	44 (4.6)	228 (2.0)
Rhode Island	6 (2.5)	208 (4.0)	41 (5.6)	211 (3.2)	53 (5.4)	217 (2.6)
South Carolina	9 (2.8)	205 (4.9)	59 (4.9)	209 (1.7)	33 (4.8)	216 (2.4)
Tennessee	8 (2.3)	205 (2.1)	57 (5.3)	211 (2.0)	35 (5.3)	207 (3.0)
Texas	14 (3.8)	214 (3.7)	48 (4.9)	214 (2.2)	38 (4.9)	221 (2.5)
Utah	9 (3.1)	216 (5.4)	47 (5.1)	223 (1.6)	43 (5.0)	224 (1.5)
Virginia	5 (2.2)	209 (5.2)	52 (4.5)	217 (2.1)	42 (4.4)	225 (2.6)
West Virginia	10 (2.7)	215 (5.4)	57 (4.5)	214 (1.4)	33 (4.4)	214 (1.4)
Wisconsin	5 (2.5)	222 (9.5)	49 (4.9)	224 (1.6)	46 (4.7)	232 (1.3)
Wyoming	7 (2.8)	217 (3.5)	41 (4.7)	224 (1.5)	52 (5.0)	225 (1.2)
TERRITORY						
Guam	10 (0.1)	197 (1.9)	62 (0.3)	190 (1.2)	27 (0.3)	190 (1.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.14 | **Schools' Reports on the Degree of Student Health Problems in the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Serious or Moderate		Minor		Not a Problem	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	11 (2.4)	260 (4.4)	49 (4.1)	266 (1.9)	40 (3.2)	269 (2.0)
Northeast	10 (3.2)	239 (3.3)	38 (9.2)	262 (4.6)	52 (8.3)	274 (5.0)
Southeast	10 (4.1)	254 (4.2)	45 (5.3)	255 (3.1)	46 (6.9)	262 (2.9)
Central	13 (6.4)	271 (8.0)	51 (9.0)	272 (3.9)	35 (5.9)	277 (2.4)
West	10 (4.5)	267(10.1)	59 (8.4)	270 (2.6)	31 (5.2)	264 (5.0)
STATES						
Alabama	8 (2.4)	243 (9.1)	48 (5.1)	252 (2.1)	44 (4.9)	252 (2.8)
Arizona	14 (3.6)	256 (4.5)	61 (5.5)	265 (1.7)	25 (5.1)	267 (3.2)
Arkansas	7 (2.5)	261 (4.0)	52 (4.9)	254 (1.7)	41 (4.9)	257 (2.1)
California	15 (3.7)	249 (4.7)	46 (5.0)	258 (2.4)	39 (5.2)	267 (3.3)
Colorado	13 (3.0)	259 (2.1)	52 (5.1)	271 (1.9)	35 (4.4)	277 (1.7)
Connecticut	11 (3.2)	242 (5.6)	33 (4.8)	276 (2.2)	56 (5.2)	278 (1.9)
Delaware	9 (0.1)	274 (3.1)	47 (0.2)	259 (1.3)	44 (0.3)	263 (1.6)
Dist. Columbia	14 (0.3)	228 (2.0)	61 (0.5)	227 (1.3)	25 (0.5)	242 (1.3)
Florida	13 (3.6)	268 (2.8)	55 (5.2)	255 (2.4)	32 (4.8)	263 (2.3)
Georgia	5 (1.6)	251 (3.0)	59 (5.1)	260 (1.9)	36 (5.1)	258 (2.6)
Hawaii	15 (0.2)	253 (2.5)	60 (0.3)	255 (1.1)	25 (0.3)	264 (1.4)
Idaho	1 (1.1)	*** (***)	62 (4.4)	273 (1.2)	37 (4.2)	277 (1.2)
Indiana	7 (2.9)	250(10.2)	54 (5.7)	270 (1.6)	39 (6.0)	271 (2.1)
Iowa	9 (3.0)	279 (4.9)	53 (5.0)	282 (1.4)	38 (4.4)	284 (1.7)
Kentucky	13 (3.8)	256 (4.0)	43 (5.3)	262 (1.7)	44 (5.1)	264 (2.0)
Louisiana	8 (2.5)	233 (3.5)	53 (5.0)	250 (2.3)	38 (4.9)	251 (2.9)
Maine	12 (3.1)	272 (2.3)	36 (4.1)	277 (1.5)	52 (4.6)	280 (1.4)
Maryland	13 (3.3)	255 (6.2)	51 (4.8)	266 (2.2)	36 (4.2)	265 (2.7)
Massachusetts	7 (2.8)	253 (6.6)	39 (4.5)	272 (3.0)	54 (4.7)	276 (1.6)
Michigan	13 (3.0)	250 (5.1)	49 (4.7)	270 (2.5)	37 (4.8)	269 (2.9)
Minnesota	3 (1.4)	278 (5.1)	54 (5.2)	281 (1.4)	43 (5.2)	282 (1.4)
Mississippi	6 (2.4)	241 (3.9)	56 (5.1)	249 (2.1)	38 (4.7)	242 (2.1)
Missouri	6 (2.5)	263 (4.9)	61 (5.7)	270 (1.9)	33 (5.2)	273 (1.4)
Nebraska	3 (1.9)	268(11.4)	53 (5.5)	276 (1.5)	44 (5.1)	281 (1.8)
New Hampshire	2 (1.0)	281 (5.9)	56 (4.2)	276 (1.2)	42 (4.4)	280 (1.5)
New Jersey	10 (3.3)	254 (6.0)	31 (5.0)	264 (4.9)	59 (5.3)	278 (2.3)
New Mexico	24 (3.9)	260 (2.5)	54 (4.3)	259 (1.1)	22 (3.4)	256 (2.7)
New York	10 (3.3)	239 (9.9)	47 (5.4)	259 (3.7)	43 (5.0)	279 (2.1)
North Carolina	8 (2.7)	261 (3.3)	59 (4.6)	258 (1.6)	33 (4.4)	257 (2.3)
North Dakota	1 (0.9)	*** (***)	32 (3.8)	280 (1.1)	67 (3.9)	284 (1.6)
Ohio	7 (2.0)	252 (5.0)	43 (5.1)	262 (2.7)	50 (5.1)	275 (2.1)
Oklahoma	2 (1.3)	*** (***)	40 (5.3)	269 (1.9)	58 (5.4)	266 (1.6)
Pennsylvania	3 (1.1)	239 (7.4)	50 (5.5)	268 (2.2)	46 (5.3)	276 (1.9)
Rhode Island	9 (0.1)	253 (2.8)	57 (0.2)	263 (0.8)	34 (0.2)	274 (1.7)
South Carolina	17 (3.4)	255 (3.1)	58 (4.8)	261 (1.5)	25 (4.8)	261 (3.1)
Tennessee	8 (2.9)	259 (4.6)	53 (5.4)	257 (1.8)	39 (5.3)	258 (3.0)
Texas	11 (2.9)	258 (3.4)	52 (5.1)	264 (2.3)	37 (4.9)	265 (2.7)
Utah	3 (1.6)	269 (2.3)	52 (4.3)	273 (1.2)	45 (4.3)	275 (1.1)
Virginia	5 (2.0)	263 (4.1)	56 (5.2)	266 (1.7)	39 (5.0)	271 (2.4)
West Virginia	8 (2.7)	259 (2.7)	58 (4.8)	257 (1.3)	34 (4.9)	260 (1.9)
Wisconsin	7 (2.4)	260 (5.4)	48 (5.2)	278 (2.1)	46 (5.1)	279 (2.5)
Wyoming	0 (0.0)	*** (***)	63 (3.0)	274 (0.9)	37 (3.0)	275 (2.0)
TERRITORIES						
Guam	34 (0.2)	234 (2.7)	66 (0.2)	234 (1.2)	0 (0.0)	*** (***)
Virgin Islands	16 (0.1)	213 (2.2)	48 (0.1)	230 (1.4)	36 (0.1)	215 (1.6)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

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TABLE A.15 | **Schools' Reports on the Morale of Teachers**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	60 (3.7)	220 (1.4)	36 (3.6)	215 (1.6)	5 (1.2)	208 (7.9)
Northeast	62 (8.3)	222 (2.9)	33 (7.7)	222 (3.2)	4 (3.1)	*** (***)
Southeast	61 (7.2)	211 (2.9)	31 (7.5)	206 (2.4)	7 (2.5)	200(11.2)
Central	53 (8.1)	224 (3.0)	42 (8.2)	221 (3.5)	5 (3.1)	214 (6.5)
West	62 (6.1)	221 (2.3)	35 (6.1)	210 (2.4)	3 (1.6)	190 (3.3)
STATES						
Alabama	45 (5.3)	209 (2.8)	45 (5.3)	206 (2.6)	10 (2.9)	200 (3.8)
Arizona	53 (4.2)	216 (1.4)	44 (4.5)	212 (2.4)	3 (1.6)	211 (4.3)
Arkansas	43 (4.7)	214 (2.1)	47 (5.4)	207 (1.6)	10 (2.7)	197 (3.7)
California	60 (5.4)	209 (2.0)	33 (5.2)	206 (3.3)	7 (2.7)	197(10.0)
Colorado	58 (4.9)	221 (1.5)	40 (4.9)	218 (1.9)	2 (1.3)	*** (***)
Connecticut	62 (4.7)	228 (1.8)	36 (4.5)	223 (2.8)	2 (1.4)	235 (4.2)
Delaware	55 (0.2)	215 (1.2)	39 (0.3)	218 (1.2)	7 (0.1)	224 (3.4)
Dist. Columbia	40 (0.3)	196 (1.2)	52 (0.3)	190 (0.7)	8 (0.2)	177 (2.4)
Florida	60 (5.1)	216 (1.8)	36 (4.8)	210 (2.7)	4 (1.9)	182 (8.1)
Georgia	53 (4.7)	218 (2.4)	43 (4.4)	210 (2.1)	4 (1.8)	204 (5.5)
Hawaii	33 (4.7)	215 (2.4)	62 (5.1)	213 (1.7)	4 (2.3)	201 (7.5)
Idaho	61 (4.5)	221 (1.1)	35 (4.7)	218 (1.7)	4 (2.1)	225 (5.7)
Indiana	54 (4.6)	221 (1.5)	45 (4.6)	219 (1.8)	1 (1.0)	*** (***)
Iowa	61 (4.5)	231 (1.6)	32 (4.7)	226 (1.7)	7 (1.9)	226 (4.1)
Kentucky	38 (4.7)	213 (1.8)	57 (4.7)	214 (1.6)	5 (2.2)	212 (5.4)
Louisiana	35 (5.1)	209 (2.7)	57 (5.0)	201 (2.0)	8 (3.0)	194 (7.8)
Maine	49 (6.5)	231 (1.5)	47 (6.6)	229 (1.6)	4 (2.5)	*** (***)
Maryland	40 (4.8)	218 (2.5)	52 (4.5)	216 (2.5)	8 (3.0)	207 (7.8)
Massachusetts	50 (5.2)	226 (1.8)	44 (5.0)	226 (2.2)	7 (2.5)	219 (8.2)
Michigan	50 (5.2)	221 (2.5)	42 (5.3)	217 (3.4)	8 (2.9)	214 (5.5)
Minnesota	48 (4.8)	229 (1.7)	47 (4.9)	226 (1.3)	4 (1.8)	214 (8.2)
Mississippi	45 (4.3)	204 (1.9)	48 (4.3)	196 (1.9)	7 (2.3)	204 (4.0)
Missouri	50 (5.1)	223 (2.0)	47 (5.1)	221 (1.8)	3 (1.1)	193(14.1)
Nebraska	59 (4.6)	225 (1.7)	37 (4.6)	223 (2.4)	4 (2.3)	226 (2.1)
New Hampshire	52 (5.3)	230 (1.7)	44 (5.2)	228 (1.8)	4 (1.8)	227 (6.0)
New Jersey	64 (4.9)	229 (2.0)	32 (4.5)	225 (3.1)	4 (2.1)	193 (3.8)
New Mexico	61 (5.5)	213 (2.0)	32 (5.3)	210 (2.6)	6 (2.9)	211 (2.3)
New York	37 (4.9)	217 (3.2)	55 (5.5)	218 (2.0)	8 (3.0)	210 (7.4)
North Carolina	35 (4.5)	215 (2.5)	60 (5.1)	210 (1.4)	4 (2.1)	207 (6.7)
North Dakota	50 (5.3)	229 (1.2)	47 (5.1)	226 (1.2)	4 (1.9)	227(10.9)
Ohio	66 (4.6)	221 (1.4)	33 (4.7)	212 (2.5)	1 (0.8)	*** (***)
Oklahoma	57 (5.1)	221 (1.4)	40 (5.0)	217 (1.6)	3 (1.6)	208 (6.6)
Pennsylvania	43 (5.2)	230 (1.8)	51 (4.9)	218 (1.5)	5 (2.4)	223(14.2)
Rhode Island	55 (5.4)	211 (2.3)	39 (5.2)	218 (2.5)	6 (2.2)	214 (9.4)
South Carolina	45 (5.3)	216 (1.9)	52 (5.3)	207 (1.9)	2 (1.4)	202 (3.6)
Tennessee	41 (4.9)	211 (2.5)	45 (4.9)	209 (2.0)	14 (3.9)	207 (4.8)
Texas	49 (5.3)	220 (1.8)	47 (5.1)	213 (2.3)	4 (2.3)	215 (4.2)
Utah	47 (4.4)	224 (1.7)	47 (4.5)	222 (1.5)	5 (2.3)	220 (3.0)
Virginia	57 (4.5)	218 (2.0)	39 (4.8)	220 (2.5)	4 (2.1)	221 (5.9)
West Virginia	42 (5.0)	216 (2.0)	54 (4.9)	213 (1.4)	4 (1.7)	208 (2.4)
Wisconsin	55 (4.2)	229 (1.6)	41 (4.4)	226 (1.9)	4 (1.8)	227 (3.8)
Wyoming	50 (4.7)	224 (1.3)	43 (4.9)	224 (1.2)	8 (2.6)	227 (4.3)
TERRITORY						
Guam	43 (0.3)	195 (1.1)	50 (0.3)	189 (1.5)	7 (0.1)	185 (2.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.15 | **Schools' Reports on the Morale of Teachers (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	31 (3.4)	269 (1.9)	59 (4.0)	266 (1.8)	11 (3.0)	264 (3.5)
Northeast	37 (9.7)	275 (3.5)	57(10.1)	261 (5.3)	6 (3.3)	*** (***)
Southeast	27 (6.2)	256 (3.5)	61 (4.8)	260 (2.8)	12 (5.4)	257 (6.3)
Central	24 (6.7)	277 (2.7)	67 (6.5)	272 (2.6)	9 (5.8)	275(12.3)
West	35 (5.4)	269 (3.3)	51 (9.4)	269 (4.3)	14 (7.3)	262 (4.4)
STATES						
Alabama	36 (5.4)	253 (4.1)	59 (5.5)	250 (1.8)	5 (2.4)	254 (2.5)
Arizona	48 (5.0)	266 (2.3)	46 (5.4)	264 (2.0)	5 (2.7)	256 (5.0)
Arkansas	25 (5.0)	257 (3.0)	66 (5.6)	255 (1.6)	8 (2.9)	257 (3.7)
California	45 (5.1)	261 (3.1)	51 (5.2)	261 (2.2)	4 (1.9)	242(10.8)
Colorado	33 (4.9)	273 (2.0)	59 (5.4)	271 (1.6)	9 (2.5)	265 (4.2)
Connecticut	44 (5.7)	275 (2.5)	48 (5.6)	271 (3.1)	7 (2.7)	275 (6.6)
Delaware	48 (0.3)	265 (1.2)	52 (0.3)	259 (1.6)	0 (0.0)	*** (***)
Dist. Columbia	35 (0.4)	229 (1.8)	64 (0.4)	232 (1.0)	1 (0.1)	*** (***)
Florida	37 (4.4)	261 (2.6)	55 (4.7)	257 (2.1)	8 (3.1)	271 (2.2)
Georgia	44 (5.9)	259 (2.7)	52 (5.6)	257 (1.9)	4 (2.3)	268 (4.9)
Hawaii	26 (0.3)	253 (1.9)	64 (0.3)	257 (1.0)	9 (0.2)	270 (3.2)
Idaho	59 (4.1)	276 (0.9)	39 (4.3)	273 (1.5)	2 (1.6)	*** (***)
Indiana	38 (5.9)	274 (1.8)	54 (5.9)	269 (1.8)	8 (2.1)	252 (3.4)
Iowa	42 (5.0)	285 (1.9)	55 (5.1)	281 (1.3)	3 (1.5)	275 (8.5)
Kentucky	28 (4.9)	264 (2.4)	59 (4.6)	260 (1.6)	13 (3.4)	264 (2.9)
Louisiana	40 (5.0)	251 (3.2)	51 (5.0)	247 (2.1)	8 (2.9)	248 (4.2)
Maine	34 (4.9)	281 (2.1)	62 (5.1)	277 (1.2)	4 (2.0)	276 (6.0)
Maryland	27 (4.8)	269 (3.7)	52 (5.3)	262 (2.6)	20 (4.1)	262 (3.4)
Massachusetts	27 (4.7)	270 (2.7)	55 (5.1)	273 (2.3)	19 (4.6)	276 (3.9)
Michigan	28 (4.8)	271 (4.8)	54 (5.1)	264 (1.9)	18 (3.4)	267 (4.1)
Minnesota	38 (5.1)	283 (1.5)	56 (5.0)	281 (1.4)	6 (2.6)	283 (3.4)
Mississippi	34 (4.9)	248 (2.2)	56 (5.4)	244 (1.8)	10 (3.0)	244 (2.7)
Missouri	33 (5.0)	274 (1.7)	51 (5.1)	268 (1.9)	15 (4.0)	270 (2.7)
Nebraska	45 (4.4)	279 (1.4)	52 (4.8)	277 (1.7)	3 (1.8)	276 (5.6)
New Hampshire	45 (3.9)	278 (1.6)	42 (4.0)	278 (1.2)	13 (3.0)	277 (2.8)
New Jersey	40 (5.8)	278 (3.0)	55 (6.0)	269 (2.7)	5 (3.1)	267 (4.6)
New Mexico	40 (4.0)	257 (2.1)	48 (4.0)	260 (1.2)	12 (2.4)	258 (2.1)
New York	36 (4.7)	279 (2.4)	53 (4.7)	262 (3.3)	11 (3.7)	239 (8.8)
North Carolina	26 (4.0)	253 (2.1)	59 (5.1)	258 (1.7)	14 (3.6)	261 (3.9)
North Dakota	37 (4.8)	285 (1.6)	60 (5.0)	281 (1.3)	3 (1.9)	277 (3.4)
Ohio	24 (4.4)	267 (3.7)	67 (5.1)	268 (2.4)	10 (3.2)	267 (6.9)
Oklahoma	42 (4.8)	269 (1.6)	53 (4.9)	266 (1.6)	5 (2.1)	267 (7.1)
Pennsylvania	30 (4.3)	278 (2.2)	53 (5.1)	265 (2.0)	17 (4.0)	274 (3.6)
Rhode Island	40 (0.2)	272 (1.3)	56 (0.2)	261 (0.9)	4 (0.1)	264 (3.4)
South Carolina	37 (5.7)	260 (2.2)	56 (5.5)	261 (1.9)	7 (2.5)	258 (4.3)
Tennessee	35 (4.9)	262 (2.7)	51 (5.1)	257 (2.0)	15 (3.6)	254 (3.7)
Texas	40 (5.0)	269 (2.6)	55 (5.2)	262 (2.2)	5 (2.1)	247(11.3)
Utah	46 (4.2)	275 (1.3)	45 (3.6)	272 (1.0)	9 (2.1)	278 (2.6)
Virginia	43 (5.3)	266 (2.4)	49 (5.6)	266 (2.2)	9 (2.9)	277 (6.6)
West Virginia	29 (4.0)	261 (1.5)	56 (4.9)	257 (1.3)	15 (3.9)	259 (2.6)
Wisconsin	27 (4.9)	279 (2.2)	58 (5.6)	277 (2.6)	15 (3.7)	276 (3.1)
Wyoming	49 (3.8)	272 (1.4)	44 (3.2)	276 (1.3)	8 (2.4)	277 (3.1)
TERRITORIES						
Guam	13 (0.3)	216 (3.6)	87 (0.3)	237 (1.3)	0 (0.0)	*** (***)
Virgin Islands	28 (0.2)	232 (1.3)	72 (0.2)	218 (1.2)	0 (0.0)	*** (***)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

TABLE A.16 | **Schools' Reports on the Students' Attitudes toward Academic Achievement**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	34 (3.3)	222 (1.9)	63 (3.6)	216 (1.3)	3 (1.1)	198(10.3)
Northeast	47 (9.1)	228 (4.1)	53 (9.1)	218 (3.4)	0 (0.0)	*** (***)
Southeast	35 (5.5)	217 (3.8)	60 (5.6)	206 (2.4)	5 (2.1)	194 (4.1)
Central	29 (5.0)	221 (3.6)	71 (5.0)	223 (3.0)	0 (0.0)	*** (***)
West	30 (6.5)	222 (3.2)	64 (8.0)	215 (2.4)	5 (3.3)	202(22.6)
STATES						
Alabama	16 (3.8)	222 (4.5)	67 (4.8)	205 (2.0)	17 (3.5)	200 (2.9)
Arizona	32 (4.7)	216 (2.5)	58 (5.0)	215 (1.8)	10 (3.0)	203 (5.4)
Arkansas	18 (3.5)	216 (3.1)	68 (4.4)	208 (1.3)	15 (3.5)	204 (2.8)
California	42 (4.6)	218 (2.7)	57 (4.7)	198 (2.0)	1 (0.9)	*** (***)
Colorado	35 (4.0)	223 (1.8)	60 (4.1)	218 (1.4)	5 (2.1)	212 (3.1)
Connecticut	52 (4.6)	234 (1.7)	48 (4.6)	218 (2.4)	0 (0.0)	*** (***)
Delaware	26 (0.1)	216 (1.6)	67 (0.2)	216 (1.1)	7 (0.1)	220 (3.0)
Dist. Columbia	39 (0.3)	200 (1.3)	54 (0.3)	187 (0.9)	7 (0.2)	180 (2.8)
Florida	40 (4.8)	216 (2.4)	56 (4.8)	212 (2.7)	4 (1.4)	188 (8.5)
Georgia	35 (4.5)	226 (2.9)	56 (4.7)	208 (1.5)	9 (2.3)	208 (2.9)
Hawaii	16 (3.8)	224 (3.1)	82 (3.9)	211 (1.4)	2 (1.3)	*** (***)
Idaho	30 (4.6)	224 (1.9)	69 (4.6)	219 (1.2)	1 (0.3)	*** (***)
Indiana	26 (4.8)	223 (2.1)	69 (5.1)	219 (1.5)	5 (2.3)	215(10.8)
Iowa	39 (4.2)	234 (1.1)	57 (4.5)	227 (1.2)	4 (1.5)	211 (3.9)
Kentucky	18 (3.4)	222 (2.4)	72 (4.0)	213 (1.1)	10 (2.9)	202 (3.3)
Louisiana	20 (4.0)	218 (3.2)	65 (4.8)	201 (2.1)	14 (3.3)	192 (4.2)
Maine	22 (4.7)	234 (2.5)	71 (4.9)	230 (1.4)	6 (2.9)	221 (2.0)
Maryland	35 (4.1)	225 (2.4)	62 (4.4)	213 (2.0)	3 (1.8)	186 (8.8)
Massachusetts	44 (5.5)	229 (2.0)	53 (5.4)	223 (1.6)	3 (1.7)	219(15.1)
Michigan	23 (3.9)	230 (3.9)	74 (4.2)	216 (2.0)	3 (1.7)	199(12.2)
Minnesota	37 (5.0)	231 (1.3)	63 (5.0)	225 (1.4)	0 (0.4)	*** (***)
Mississippi	12 (3.2)	205 (5.4)	78 (4.1)	201 (1.4)	9 (2.9)	190 (4.5)
Missouri	31 (4.5)	228 (1.8)	64 (4.8)	219 (1.6)	6 (3.1)	204 (6.8)
Nebraska	30 (4.7)	228 (2.1)	66 (4.5)	223 (1.7)	4 (1.8)	212 (7.1)
New Hampshire	37 (4.7)	232 (2.0)	61 (4.8)	227 (1.6)	2 (1.6)	*** (***)
New Jersey	57 (5.1)	232 (2.3)	39 (5.1)	221 (2.5)	4 (2.0)	199(12.8)
New Mexico	26 (5.4)	218 (3.3)	72 (5.6)	210 (1.4)	2 (1.5)	*** (***)
New York	30 (5.3)	226 (3.8)	65 (5.7)	213 (1.5)	5 (2.1)	223 (4.1)
North Carolina	29 (4.1)	217 (3.0)	59 (4.3)	210 (1.6)	11 (1.8)	204 (2.8)
North Dakota	31 (4.6)	229 (1.4)	68 (4.7)	227 (1.0)	1 (0.8)	*** (***)
Ohio	33 (5.0)	226 (2.2)	58 (5.1)	215 (1.6)	9 (2.8)	203 (4.0)
Oklahoma	26 (4.4)	222 (1.9)	66 (4.2)	219 (1.3)	8 (2.6)	212 (2.4)
Pennsylvania	33 (4.7)	229 (2.8)	60 (5.1)	222 (1.8)	8 (2.5)	205 (6.4)
Rhode Island	32 (5.2)	220 (3.2)	64 (5.1)	211 (2.4)	4 (1.8)	202(15.4)
South Carolina	24 (4.8)	224 (1.8)	69 (5.1)	207 (1.4)	7 (2.6)	201 (3.5)
Tennessee	27 (4.7)	214 (3.8)	64 (5.0)	208 (1.8)	10 (3.3)	202 (3.8)
Texas	24 (4.3)	224 (2.8)	71 (4.4)	215 (1.6)	5 (2.8)	209 (6.3)
Utah	32 (4.0)	231 (1.7)	59 (4.6)	220 (1.3)	9 (3.0)	217 (3.3)
Virginia	33 (4.4)	228 (2.9)	64 (4.8)	215 (1.5)	4 (1.9)	213 (3.7)
West Virginia	25 (4.0)	220 (2.4)	66 (4.8)	213 (1.0)	9 (2.6)	203 (2.8)
Wisconsin	39 (5.4)	230 (1.5)	58 (5.5)	227 (1.3)	3 (1.6)	200 (5.8)
Wyoming	38 (4.4)	226 (1.7)	59 (4.4)	223 (1.1)	2 (1.4)	*** (***)
TERRITORY						
Guam	17 (0.2)	190 (2.0)	83 (0.2)	191 (1.0)	0 (0.0)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.16 | **Schools' Reports on the Students' Attitudes toward Academic Achievement (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	20 (3.1)	277 (2.4)	59 (3.5)	265 (1.2)	20 (2.8)	259 (2.6)
Northeast	28 (8.4)	281 (6.0)	51 (9.5)	259 (4.5)	22 (7.5)	263 (4.0)
Southeast	16 (6.2)	268 (3.8)	62 (7.3)	260 (1.7)	22 (5.6)	247 (3.7)
Central	16 (5.3)	279 (2.2)	74 (6.6)	273 (2.4)	10 (5.8)	267 (6.9)
West	22 (5.2)	277 (4.3)	52 (4.9)	266 (3.0)	27 (5.3)	264 (5.1)
STATES						
Alabama	4 (1.8)	268 (9.7)	73 (4.8)	254 (2.0)	23 (4.6)	241 (3.2)
Arizona	22 (5.0)	274 (3.2)	62 (5.5)	264 (1.5)	15 (3.4)	251 (3.6)
Arkansas	5 (2.1)	258 (7.4)	74 (4.1)	257 (1.4)	21 (3.5)	251 (2.6)
California	24 (4.0)	276 (3.6)	62 (4.6)	257 (2.1)	14 (3.4)	249 (5.5)
Colorado	15 (3.3)	278 (3.0)	68 (4.4)	272 (1.5)	17 (3.3)	260 (2.9)
Connecticut	24 (4.7)	281 (4.6)	69 (5.4)	272 (1.9)	7 (2.7)	259 (6.0)
Delaware	14 (0.2)	277 (2.2)	81 (0.2)	260 (1.2)	5 (0.1)	281 (3.3)
Dist. Columbia	20 (0.7)	244 (1.3)	62 (0.4)	228 (1.2)	18 (0.5)	226 (2.3)
Florida	16 (3.9)	264 (4.1)	75 (4.4)	260 (1.7)	10 (2.9)	252 (5.5)
Georgia	11 (3.1)	275 (3.1)	74 (4.2)	258 (1.4)	15 (3.7)	247 (3.5)
Hawaii	11 (0.2)	265 (3.6)	70 (0.2)	257 (1.0)	19 (0.2)	252 (2.0)
Idaho	14 (3.0)	279 (2.1)	78 (3.7)	274 (0.9)	8 (2.9)	271 (2.7)
Indiana	14 (3.8)	276 (4.2)	75 (4.8)	270 (1.4)	12 (3.5)	257 (3.8)
Iowa	27 (4.2)	287 (2.2)	63 (3.9)	282 (1.1)	9 (2.8)	275 (3.8)
Kentucky	7 (2.3)	274 (4.2)	75 (3.9)	263 (1.4)	17 (3.5)	252 (2.5)
Louisiana	12 (3.7)	262 (5.8)	62 (5.5)	250 (2.1)	26 (4.6)	239 (2.8)
Maine	15 (3.5)	286 (4.1)	76 (3.8)	276 (0.9)	10 (2.5)	280 (3.2)
Maryland	19 (3.8)	283 (3.5)	67 (5.3)	263 (1.8)	14 (3.8)	246 (4.1)
Massachusetts	19 (3.8)	281 (3.4)	72 (4.7)	272 (1.8)	9 (3.5)	280 (7.0)
Michigan	14 (3.7)	277 (9.1)	71 (4.7)	266 (1.6)	15 (3.7)	260 (5.3)
Minnesota	23 (4.7)	285 (1.6)	73 (5.2)	281 (1.3)	4 (2.2)	280 (1.2)
Mississippi	9 (2.7)	254 (6.4)	70 (4.7)	246 (1.7)	21 (4.1)	240 (2.8)
Missouri	10 (2.9)	275 (2.4)	76 (4.2)	271 (1.3)	13 (3.4)	265 (3.7)
Nebraska	31 (4.6)	278 (1.7)	59 (5.7)	278 (1.5)	10 (3.5)	272 (3.5)
New Hampshire	26 (3.6)	282 (2.0)	64 (3.9)	276 (1.2)	11 (2.4)	278 (1.9)
New Jersey	24 (4.5)	284 (5.1)	63 (5.7)	268 (2.4)	13 (3.8)	264 (4.4)
New Mexico	2 (1.5)	252 (3.5)	82 (3.6)	260 (1.2)	15 (3.5)	252 (2.0)
New York	12 (3.2)	284 (2.2)	74 (4.5)	268 (2.0)	14 (3.4)	238 (8.5)
North Carolina	6 (2.7)	262 (6.3)	74 (4.5)	260 (1.4)	20 (3.5)	248 (2.9)
North Dakota	35 (4.1)	286 (1.8)	57 (4.2)	281 (1.5)	8 (2.4)	281 (1.7)
Ohio	11 (3.0)	287 (4.6)	74 (4.5)	267 (2.2)	15 (3.3)	256 (6.0)
Oklahoma	15 (2.9)	271 (2.4)	76 (4.0)	268 (1.1)	9 (3.0)	258 (5.3)
Pennsylvania	15 (3.4)	280 (2.9)	74 (4.5)	270 (2.0)	11 (3.1)	260 (4.1)
Rhode Island	21 (0.2)	280 (1.1)	67 (0.2)	262 (1.0)	13 (0.2)	262 (1.6)
South Carolina	10 (3.1)	273 (2.7)	70 (5.0)	259 (1.3)	20 (4.1)	257 (2.6)
Tennessee	12 (3.3)	273 (3.9)	67 (4.7)	258 (1.7)	21 (3.9)	249 (3.4)
Texas	9 (3.0)	276 (8.4)	73 (4.3)	264 (1.6)	18 (3.8)	257 (3.8)
Utah	21 (4.1)	278 (2.1)	71 (4.3)	273 (0.9)	9 (2.6)	268 (2.7)
Virginia	20 (3.6)	278 (3.1)	70 (4.2)	264 (1.4)	10 (2.4)	266 (5.4)
West Virginia	12 (3.0)	262 (2.8)	74 (4.7)	257 (1.3)	14 (3.7)	259 (1.4)
Wisconsin	20 (4.6)	285 (3.4)	68 (5.2)	277 (1.8)	12 (3.1)	265 (4.5)
Wyoming	14 (2.9)	276 (3.3)	77 (3.6)	274 (1.1)	9 (2.5)	277 (2.6)
TERRITORIES						
Guam	0 (0.0)	*** (***)	91 (0.2)	235 (1.3)	9 (0.2)	228 (1.1)
Virgin Islands	0 (0.0)	*** (***)	66 (0.1)	226 (1.4)	34 (0.1)	214 (1.5)

TABLE A.17 | **Schools' Reports on the Teachers' Attitudes toward Academic Achievement**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	75 (2.5)	219 (1.0)	23 (2.3)	213 (2.1)	1 (0.6)	191 (4.0)
Northeast	81 (6.9)	225 (2.9)	19 (6.9)	214 (6.3)	0 (0.0)	*** (***)
Southeast	80 (3.6)	212 (2.0)	18 (3.2)	196 (4.0)	1 (1.2)	*** (***)
Central	69 (5.2)	223 (2.0)	30 (5.1)	221 (2.9)	1 (0.9)	*** (***)
West	72 (3.7)	218 (2.1)	25 (3.0)	214 (3.1)	3 (1.7)	191 (2.0)
STATES						
Alabama	51 (4.6)	212 (2.2)	46 (4.7)	202 (2.3)	3 (1.9)	199 (8.5)
Arizona	58 (4.6)	216 (1.5)	39 (4.5)	212 (2.6)	3 (1.8)	207 (4.6)
Arkansas	62 (5.1)	211 (1.6)	34 (5.1)	206 (2.3)	4 (1.7)	193 (3.4)
California	73 (4.0)	212 (1.9)	27 (4.2)	191 (3.6)	1 (0.9)	*** (***)
Colorado	68 (3.7)	221 (1.4)	31 (3.8)	218 (1.8)	1 (0.9)	*** (***)
Connecticut	79 (3.9)	227 (1.3)	20 (3.7)	221 (4.3)	1 (1.2)	*** (***)
Delaware	65 (0.3)	214 (1.1)	30 (0.3)	220 (1.6)	5 (0.1)	*** (***)
Dist. Columbia	59 (0.3)	195 (0.9)	40 (0.3)	187 (1.1)	2 (0.1)	*** (***)
Florida	72 (4.2)	215 (2.0)	27 (4.2)	206 (3.2)	1 (0.8)	178 (9.3)
Georgia	68 (4.1)	218 (1.8)	32 (4.1)	207 (1.8)	0 (0.0)	*** (***)
Hawaii	56 (4.4)	214 (2.2)	44 (4.4)	211 (1.6)	0 (0.0)	*** (***)
Idaho	67 (4.6)	221 (1.3)	32 (4.6)	219 (1.5)	1 (0.5)	*** (***)
Indiana	65 (5.3)	221 (1.4)	33 (5.4)	220 (2.2)	2 (1.2)	*** (***)
Iowa	69 (4.3)	231 (1.1)	27 (4.5)	225 (2.0)	4 (2.0)	216 (9.0)
Kentucky	72 (4.4)	215 (1.2)	28 (4.4)	211 (2.2)	0 (0.0)	*** (***)
Louisiana	57 (5.0)	210 (2.1)	42 (5.1)	195 (2.4)	1 (0.9)	*** (***)
Maine	56 (5.1)	232 (1.2)	44 (5.1)	229 (1.9)	0 (0.0)	*** (***)
Maryland	74 (4.2)	218 (1.6)	24 (3.9)	215 (4.0)	2 (1.6)	*** (***)
Massachusetts	82 (4.3)	226 (1.3)	18 (4.3)	222 (4.5)	0 (0.0)	*** (***)
Michigan	70 (4.8)	219 (2.4)	28 (4.8)	218 (3.3)	2 (1.3)	*** (***)
Minnesota	75 (4.5)	228 (1.3)	25 (4.5)	226 (2.2)	0 (0.0)	*** (***)
Mississippi	60 (4.5)	202 (1.7)	39 (4.6)	197 (2.2)	1 (1.1)	*** (***)
Missouri	76 (3.9)	224 (1.5)	22 (3.9)	216 (2.8)	2 (0.5)	*** (***)
Nebraska	80 (4.5)	224 (1.4)	20 (4.5)	224 (3.1)	0 (0.0)	*** (***)
New Hampshire	75 (5.1)	229 (1.4)	25 (5.1)	229 (1.9)	0 (0.0)	*** (***)
New Jersey	81 (3.9)	229 (1.8)	17 (3.7)	217 (4.5)	2 (1.3)	*** (***)
New Mexico	65 (6.2)	215 (1.8)	33 (6.0)	207 (1.9)	2 (1.5)	*** (***)
New York	67 (5.5)	219 (2.2)	33 (5.5)	214 (2.9)	0 (0.0)	*** (***)
North Carolina	65 (4.4)	214 (1.6)	33 (4.5)	206 (1.5)	2 (1.4)	*** (***)
North Dakota	73 (3.8)	228 (1.0)	27 (3.8)	226 (1.8)	0 (0.0)	*** (***)
Ohio	74 (4.4)	220 (1.4)	25 (4.3)	212 (2.9)	1 (0.6)	*** (***)
Oklahoma	67 (4.1)	219 (1.3)	31 (4.3)	218 (1.7)	2 (1.3)	*** (***)
Pennsylvania	68 (5.2)	226 (1.6)	30 (5.2)	218 (3.4)	2 (1.2)	*** (***)
Rhode Island	66 (5.1)	214 (2.1)	34 (5.1)	214 (3.5)	0 (0.0)	*** (***)
South Carolina	65 (4.9)	214 (1.6)	33 (4.7)	207 (2.3)	1 (1.1)	*** (***)
Tennessee	62 (4.4)	211 (1.9)	36 (4.4)	206 (2.6)	2 (1.3)	*** (***)
Texas	63 (5.0)	220 (1.6)	33 (5.1)	212 (2.4)	4 (2.0)	204 (4.4)
Utah	66 (4.8)	225 (1.2)	32 (4.7)	219 (1.6)	2 (1.3)	*** (***)
Virginia	82 (3.5)	221 (1.5)	18 (3.5)	212 (2.8)	0 (0.0)	*** (***)
West Virginia	71 (4.1)	216 (1.3)	27 (4.2)	209 (1.8)	2 (1.4)	205 (2.9)
Wisconsin	76 (3.8)	227 (1.4)	24 (3.8)	229 (1.9)	0 (0.0)	*** (***)
Wyoming	68 (4.4)	224 (1.2)	29 (4.2)	224 (1.7)	2 (1.3)	223 (8.3)
TERRITORY						
Guam	64 (0.2)	194 (1.0)	36 (0.2)	186 (1.6)	0 (0.0)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.17 | **Schools' Reports on the Teachers' Attitudes toward Academic Achievement (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	53 (3.7)	270 (1.6)	43 (3.4)	262 (1.7)	4 (1.6)	263 (8.9)
Northeast	62 (6.8)	275 (3.9)	34 (5.1)	249 (5.1)	4 (3.5)	*** (***)
Southeast	54 (7.5)	263 (3.0)	46 (7.5)	253 (2.1)	0 (0.0)	*** (***)
Central	50(10.4)	276 (2.7)	45 (9.3)	272 (4.2)	5 (5.3)	*** (***)
West	49 (4.3)	268 (2.8)	46 (4.2)	269 (3.5)	5 (1.6)	*** (***)
STATES						
Alabama	51 (4.9)	255 (2.7)	44 (5.4)	248 (2.5)	5 (2.4)	248 (5.4)
Arizona	60 (5.3)	267 (1.8)	32 (5.1)	262 (2.5)	8 (2.4)	256 (3.4)
Arkansas	52 (4.0)	256 (1.8)	43 (4.3)	256 (1.8)	6 (2.5)	247 (7.1)
California	54 (5.0)	265 (2.5)	45 (5.1)	256 (2.4)	1 (1.1)	*** (***)
Colorado	57 (4.9)	275 (1.2)	37 (4.6)	268 (2.3)	7 (2.2)	260 (6.5)
Connecticut	65 (4.1)	278 (2.3)	34 (4.0)	265 (2.7)	1 (0.8)	*** (***)
Delaware	75 (0.3)	263 (1.2)	22 (0.3)	260 (1.8)	3 (0.1)	266 (4.3)
Dist. Columbia	45 (0.5)	233 (1.4)	49 (0.5)	229 (1.1)	6 (0.2)	230 (3.6)
Florida	53 (4.9)	264 (2.1)	43 (4.8)	254 (2.5)	4 (1.9)	263(12.2)
Georgia	56 (5.3)	259 (1.8)	38 (4.9)	259 (1.9)	6 (2.4)	258 (7.3)
Hawaii	30 (0.3)	263 (1.7)	60 (0.3)	254 (1.1)	10 (0.2)	259 (2.3)
Idaho	59 (3.8)	275 (1.1)	41 (3.8)	274 (1.2)	0 (0.0)	*** (***)
Indiana	56 (5.3)	273 (1.6)	41 (4.5)	265 (1.9)	3 (2.5)	*** (***)
Iowa	57 (5.4)	284 (1.4)	41 (5.2)	282 (1.7)	3 (1.5)	268 (4.6)
Kentucky	54 (5.1)	264 (1.5)	45 (5.2)	260 (1.7)	2 (1.1)	*** (***)
Louisiana	57 (4.8)	252 (2.3)	38 (4.5)	245 (2.7)	5 (2.3)	241 (5.8)
Maine	60 (5.3)	278 (1.4)	40 (5.3)	278 (1.6)	0 (0.0)	*** (***)
Maryland	50 (5.0)	273 (2.2)	47 (5.1)	256 (2.1)	2 (1.5)	236 (9.7)
Massachusetts	53 (4.8)	278 (1.6)	46 (4.9)	266 (2.4)	1 (0.6)	*** (***)
Michigan	38 (5.2)	267 (3.8)	58 (5.2)	267 (2.5)	4 (2.0)	256 (9.5)
Minnesota	66 (5.3)	282 (1.1)	34 (5.3)	282 (1.9)	0 (0.0)	*** (***)
Mississippi	54 (5.5)	247 (2.1)	46 (5.5)	244 (1.9)	0 (0.0)	*** (***)
Missouri	50 (5.6)	272 (2.0)	47 (5.6)	270 (1.6)	2 (1.4)	254(14.6)
Nebraska	54 (5.1)	279 (1.3)	44 (5.4)	277 (1.8)	2 (1.7)	*** (***)
New Hampshire	61 (4.4)	280 (1.3)	32 (4.3)	275 (1.7)	7 (1.5)	278 (1.7)
New Jersey	54 (5.3)	278 (2.1)	45 (5.5)	263 (2.7)	1 (0.9)	*** (***)
New Mexico	57 (4.5)	258 (1.1)	39 (4.2)	260 (2.0)	4 (1.6)	252 (5.2)
New York	47 (5.7)	275 (2.6)	46 (5.6)	262 (3.5)	7 (3.0)	226 (9.3)
North Carolina	56 (5.1)	257 (1.7)	43 (5.1)	259 (2.0)	1 (0.8)	*** (***)
North Dakota	69 (4.3)	283 (1.3)	31 (4.3)	281 (1.6)	0 (0.0)	*** (***)
Ohio	40 (5.1)	272 (3.2)	55 (5.8)	266 (1.9)	5 (2.5)	251 (6.5)
Oklahoma	69 (5.3)	268 (1.4)	30 (5.2)	265 (2.7)	2 (1.2)	*** (***)
Pennsylvania	48 (3.7)	275 (2.3)	50 (4.0)	267 (2.1)	2 (1.6)	*** (***)
Rhode Island	57 (0.2)	269 (0.8)	43 (0.2)	262 (1.3)	0 (0.0)	*** (***)
South Carolina	53 (6.1)	261 (1.7)	45 (5.8)	259 (2.2)	2 (1.5)	*** (***)
Tennessee	71 (4.4)	260 (1.8)	26 (4.3)	253 (2.8)	3 (0.8)	*** (***)
Texas	48 (5.0)	268 (2.6)	49 (4.9)	260 (1.9)	3 (1.5)	252(11.0)
Utah	72 (4.4)	274 (0.9)	27 (4.5)	273 (1.5)	1 (0.9)	*** (***)
Virginia	67 (5.3)	269 (1.9)	30 (5.1)	266 (2.8)	3 (1.5)	255 (2.8)
West Virginia	48 (5.5)	260 (1.5)	50 (5.5)	256 (1.5)	2 (1.4)	*** (***)
Wisconsin	54 (5.3)	279 (2.3)	46 (5.3)	275 (2.4)	0 (0.0)	*** (***)
Wyoming	63 (4.4)	275 (1.3)	35 (4.2)	274 (1.4)	2 (1.2)	*** (***)
TERRITORIES						
Guam	70 (0.2)	235 (1.4)	30 (0.2)	232 (2.5)	0 (0.0)	*** (***)
Virgin Islands	28 (0.2)	232 (1.3)	56 (0.2)	219 (1.4)	16 (0.1)	213 (2.2)

TABLE A.18 | **Schools' Reports on the Parental Support for Student Achievement**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	41 (3.2)	224 (1.8)	54 (3.2)	214 (1.3)	5 (1.2)	200 (5.0)
Northeast	52 (7.5)	230 (4.1)	47 (6.9)	215 (3.0)	1 (1.1)	*** (***)
Southeast	42 (6.2)	219 (3.8)	48 (6.0)	203 (2.1)	10 (3.7)	193 (7.2)
Central	33 (5.1)	224 (3.2)	62 (5.3)	222 (2.4)	5 (1.9)	213(11.7)
West	41 (6.9)	223 (2.4)	56 (7.4)	213 (2.8)	4 (1.6)	198 (4.0)
STATES						
Alabama	26 (4.6)	218 (3.9)	57 (5.2)	205 (2.0)	18 (3.7)	196 (2.8)
Arizona	32 (4.7)	221 (2.1)	57 (5.1)	212 (2.0)	11 (3.0)	202 (4.8)
Arkansas	19 (3.4)	212 (3.1)	68 (4.2)	209 (1.3)	14 (3.2)	202 (2.6)
California	47 (4.8)	218 (2.3)	46 (5.1)	198 (2.8)	7 (2.5)	191 (6.3)
Colorado	46 (4.5)	226 (1.5)	43 (4.6)	216 (1.6)	11 (2.9)	210 (3.6)
Connecticut	53 (4.8)	231 (1.9)	47 (4.8)	220 (2.2)	0 (0.0)	*** (***)
Delaware	27 (0.2)	222 (1.8)	73 (0.2)	214 (0.9)	0 (0.0)	*** (***)
Dist. Columbia	41 (0.3)	201 (0.9)	53 (0.3)	185 (0.8)	6 (0.1)	182 (2.7)
Florida	45 (5.4)	216 (2.5)	48 (5.0)	211 (2.0)	7 (2.3)	199 (4.7)
Georgia	41 (4.6)	226 (2.4)	50 (5.1)	206 (1.8)	9 (2.8)	207 (3.4)
Hawaii	34 (4.7)	219 (2.5)	62 (4.8)	211 (1.5)	4 (1.6)	200 (5.4)
Idaho	36 (4.1)	223 (1.9)	60 (4.3)	219 (1.0)	4 (2.0)	215 (9.8)
Indiana	40 (4.8)	223 (1.9)	55 (5.2)	218 (1.6)	5 (2.3)	212 (8.8)
Iowa	46 (4.3)	235 (1.2)	47 (4.4)	224 (1.5)	7 (2.3)	222 (5.1)
Kentucky	26 (4.0)	221 (2.1)	58 (5.1)	213 (1.2)	16 (3.5)	204 (2.4)
Louisiana	28 (4.0)	218 (2.8)	57 (4.5)	200 (2.2)	15 (3.6)	190 (3.2)
Maine	29 (5.5)	234 (1.8)	64 (5.9)	231 (1.1)	7 (3.0)	218 (3.7)
Maryland	44 (4.5)	224 (2.0)	53 (4.8)	212 (2.4)	3 (1.9)	185 (8.4)
Massachusetts	43 (4.8)	231 (2.2)	56 (4.9)	222 (1.6)	1 (1.1)	*** (***)
Michigan	39 (4.4)	224 (3.7)	56 (4.7)	217 (2.1)	6 (2.2)	201 (8.3)
Minnesota	57 (4.7)	229 (1.2)	41 (5.0)	225 (2.0)	2 (1.7)	*** (***)
Mississippi	17 (3.6)	212 (4.0)	74 (4.1)	199 (1.5)	10 (3.2)	190 (4.8)
Missouri	40 (4.6)	228 (1.9)	50 (5.0)	219 (1.8)	10 (3.4)	207 (4.6)
Nebraska	39 (4.2)	228 (1.8)	55 (4.0)	223 (1.7)	6 (1.9)	212 (7.3)
New Hampshire	45 (4.6)	231 (1.9)	52 (4.7)	227 (1.7)	4 (1.9)	222 (8.8)
New Jersey	56 (4.4)	235 (1.9)	39 (4.5)	217 (2.9)	5 (2.1)	203(10.3)
New Mexico	39 (6.1)	220 (2.3)	46 (6.0)	207 (1.8)	15 (3.6)	203 (2.8)
New York	40 (5.1)	220 (3.4)	53 (5.0)	216 (1.9)	7 (2.8)	212 (5.2)
North Carolina	29 (4.5)	220 (2.4)	59 (5.4)	209 (1.5)	12 (2.8)	202 (1.8)
North Dakota	44 (4.7)	230 (1.1)	53 (4.5)	226 (1.3)	4 (1.7)	225 (9.0)
Ohio	32 (4.1)	228 (2.2)	55 (4.0)	215 (1.5)	13 (3.0)	203 (3.2)
Oklahoma	29 (4.6)	223 (1.7)	64 (4.6)	218 (1.4)	7 (2.3)	209 (2.0)
Pennsylvania	39 (5.0)	229 (2.5)	53 (5.1)	222 (2.0)	8 (2.4)	207 (7.2)
Rhode Island	32 (4.7)	218 (3.4)	63 (4.7)	213 (2.0)	5 (2.1)	197 (8.6)
South Carolina	31 (4.8)	221 (2.0)	59 (5.3)	207 (1.6)	9 (2.9)	205 (2.7)
Tennessee	32 (4.1)	212 (3.2)	53 (4.9)	210 (1.9)	15 (3.4)	203 (2.8)
Texas	28 (4.6)	225 (3.3)	61 (5.2)	214 (1.7)	11 (3.6)	210 (4.7)
Utah	38 (4.5)	229 (1.5)	53 (4.7)	220 (1.3)	9 (2.9)	214 (3.3)
Virginia	40 (4.8)	230 (2.8)	52 (5.3)	213 (1.8)	9 (2.5)	210 (3.5)
West Virginia	25 (4.0)	221 (2.3)	64 (4.8)	212 (1.1)	11 (2.9)	206 (2.3)
Wisconsin	47 (4.6)	231 (1.5)	49 (4.5)	225 (1.7)	4 (1.9)	220 (3.3)
Wyoming	41 (4.7)	226 (1.6)	52 (4.8)	224 (0.9)	6 (2.2)	212 (4.8)
TERRITORY						
Guam	29 (0.2)	187 (1.2)	71 (0.2)	193 (1.1)	0 (0.0)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.18 | **Schools' Reports on the Parental Support for Student Achivement (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	28 (3.0)	278 (2.2)	62 (3.2)	264 (1.2)	10 (2.3)	257 (2.4)
Northeast	27 (7.5)	278 (5.9)	67 (7.8)	264 (3.1)	6 (2.3)	238 (4.7)
Southeast	28 (4.6)	271 (3.2)	61 (6.1)	254 (1.8)	11 (6.3)	252 (5.9)
Central	25 (7.9)	279 (2.3)	61 (7.9)	273 (2.8)	14 (4.8)	268 (3.3)
West	31 (5.1)	277 (4.2)	60 (4.8)	265 (2.5)	9 (3.6)	257 (5.3)
STATES						
Alabama	12 (3.4)	265 (5.5)	65 (4.7)	251 (2.1)	23 (4.4)	244 (3.5)
Arizona	35 (5.4)	271 (2.3)	56 (5.5)	262 (1.8)	9 (2.7)	255 (3.3)
Arkansas	17 (3.4)	261 (3.3)	67 (5.4)	257 (1.5)	16 (4.3)	247 (3.5)
California	33 (4.1)	271 (3.0)	58 (4.4)	258 (2.2)	9 (2.8)	239 (4.2)
Colorado	42 (4.6)	276 (1.5)	49 (4.6)	269 (1.8)	9 (2.6)	259 (4.4)
Connecticut	41 (4.4)	281 (2.9)	51 (4.9)	269 (2.6)	9 (2.9)	260 (5.2)
Delaware	37 (0.3)	266 (1.3)	63 (0.3)	260 (1.4)	0 (0.0)	*** (***)
Dist. Columbia	28 (0.7)	242 (1.2)	51 (0.4)	225 (1.3)	21 (0.5)	230 (2.0)
Florida	29 (4.8)	268 (2.9)	64 (5.3)	255 (2.0)	6 (2.8)	260 (4.3)
Georgia	25 (4.7)	267 (3.3)	56 (5.5)	256 (1.9)	18 (4.6)	255 (3.3)
Hawaii	29 (0.3)	263 (1.8)	59 (0.3)	254 (1.0)	11 (0.2)	257 (2.1)
Idaho	29 (3.4)	279 (1.4)	68 (3.6)	273 (0.9)	3 (1.4)	265 (5.1)
Indiana	30 (5.2)	276 (2.2)	58 (4.5)	269 (1.7)	13 (3.6)	255 (4.7)
Iowa	35 (4.9)	286 (1.8)	59 (4.9)	282 (1.2)	6 (2.4)	270 (5.0)
Kentucky	18 (4.0)	273 (2.9)	63 (4.7)	261 (1.4)	18 (3.8)	255 (2.4)
Louisiana	15 (3.8)	265 (5.4)	66 (5.2)	247 (2.0)	19 (4.2)	243 (3.2)
Maine	27 (5.0)	283 (2.6)	65 (5.3)	276 (1.0)	9 (2.2)	281 (4.2)
Maryland	35 (4.7)	275 (3.0)	52 (4.6)	261 (2.1)	13 (3.0)	247 (4.4)
Massachusetts	32 (3.8)	285 (1.8)	63 (4.4)	268 (1.7)	5 (2.6)	249 (7.5)
Michigan	25 (4.1)	277 (4.4)	65 (4.8)	263 (1.9)	10 (3.0)	268 (2.0)
Minnesota	36 (4.6)	284 (1.8)	63 (4.7)	281 (1.2)	1 (0.8)	*** (***)
Mississippi	13 (3.0)	257 (3.4)	71 (3.9)	244 (1.6)	16 (3.5)	243 (3.2)
Missouri	20 (4.2)	274 (2.4)	67 (4.9)	271 (1.3)	12 (3.6)	259 (5.4)
Nebraska	40 (4.8)	280 (1.5)	54 (4.7)	277 (1.5)	6 (2.7)	273 (6.9)
New Hampshire	24 (3.2)	284 (1.9)	70 (3.4)	276 (1.2)	6 (1.7)	276 (1.7)
New Jersey	39 (5.1)	283 (2.8)	53 (5.6)	264 (3.0)	9 (2.7)	262 (7.1)
New Mexico	34 (4.1)	265 (1.3)	53 (4.4)	257 (1.5)	13 (3.0)	250 (2.3)
New York	28 (4.5)	279 (3.1)	62 (4.8)	264 (2.9)	10 (3.3)	249 (8.1)
North Carolina	18 (3.3)	265 (3.1)	70 (4.6)	257 (1.4)	12 (3.5)	249 (4.1)
North Dakota	41 (4.6)	286 (1.4)	53 (4.5)	280 (1.4)	6 (1.7)	279 (3.2)
Ohio	23 (3.8)	280 (3.8)	66 (5.3)	265 (2.0)	11 (3.5)	258 (5.9)
Oklahoma	30 (4.8)	270 (2.2)	64 (4.7)	267 (1.6)	7 (2.4)	262 (5.6)
Pennsylvania	23 (3.6)	277 (4.9)	71 (4.2)	269 (1.5)	6 (2.2)	265 (5.7)
Rhode Island	33 (0.2)	270 (1.4)	60 (0.2)	266 (0.9)	7 (0.1)	241 (1.9)
South Carolina	23 (3.9)	271 (2.1)	61 (5.0)	258 (1.5)	16 (3.5)	251 (3.0)
Tennessee	19 (4.2)	265 (4.2)	66 (4.7)	257 (1.7)	15 (3.3)	255 (2.0)
Texas	25 (4.5)	274 (4.3)	59 (5.1)	263 (1.8)	16 (2.7)	252 (3.2)
Utah	41 (4.2)	277 (1.2)	48 (4.5)	272 (1.1)	10 (3.7)	268 (2.2)
Virginia	32 (4.7)	278 (2.3)	57 (4.8)	263 (1.8)	11 (3.0)	258 (4.3)
West Virginia	22 (3.8)	263 (2.4)	62 (4.8)	257 (1.4)	16 (3.8)	254 (1.7)
Wisconsin	32 (5.2)	284 (2.5)	60 (5.8)	277 (1.9)	8 (2.3)	252 (5.3)
Wyoming	25 (3.4)	274 (1.5)	73 (3.7)	275 (1.2)	2 (1.3)	*** (***)
TERRITORIES						
Guam	0 (0.0)	*** (***)	13 (0.3)	216 (3.6)	87 (0.3)	237 (1.3)
Virgin Islands	0 (0.0)	*** (***)	66 (0.1)	226 (1.4)	34 (0.1)	214 (1.5)

TABLE A.19 | **Schools' Reports on the Regard for School Property**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	48 (3.2)	222 (1.6)	47 (3.1)	214 (1.4)	4 (1.2)	204 (6.1)
Northeast	51(10.1)	226 (3.7)	43 (9.4)	220 (3.1)	6 (3.4)	210(19.3)
Southeast	41 (4.8)	213 (3.8)	53 (5.3)	209 (2.3)	7 (2.6)	189 (4.6)
Central	63 (4.7)	223 (2.2)	34 (4.7)	220 (4.0)	3 (2.4)	*** (***)
West	38 (5.5)	224 (3.6)	59 (5.7)	212 (2.7)	3 (1.7)	203 (4.1)
STATES						
Alabama	39 (5.1)	212 (3.0)	52 (5.1)	204 (2.1)	8 (2.7)	202 (3.7)
Arizona	49 (5.0)	215 (1.8)	38 (4.9)	217 (2.2)	14 (3.5)	202 (4.5)
Arkansas	35 (4.4)	211 (2.4)	46 (4.4)	209 (1.5)	19 (3.9)	204 (2.2)
California	44 (4.9)	215 (2.4)	47 (5.1)	203 (2.5)	9 (2.8)	187 (7.0)
Colorado	54 (4.4)	222 (1.6)	39 (4.2)	218 (1.8)	6 (2.4)	214 (4.6)
Connecticut	69 (4.5)	230 (1.8)	30 (4.4)	217 (2.9)	1 (0.9)	*** (***)
Delaware	35 (0.2)	215 (1.6)	56 (0.2)	217 (1.1)	9 (0.1)	217 (2.3)
Dist. Columbia	44 (0.3)	198 (1.0)	53 (0.3)	186 (0.8)	4 (0.1)	176 (3.8)
Florida	55 (4.6)	216 (1.7)	35 (4.5)	212 (3.8)	10 (2.5)	196 (5.5)
Georgia	51 (4.7)	221 (2.5)	40 (5.0)	207 (2.3)	9 (2.9)	208 (3.4)
Hawaii	35 (4.4)	216 (2.5)	60 (4.6)	212 (1.6)	5 (1.5)	207 (5.4)
Idaho	34 (4.5)	222 (1.9)	60 (4.9)	220 (1.3)	6 (2.3)	217 (2.5)
Indiana	52 (5.6)	221 (1.6)	45 (5.5)	219 (1.9)	3 (1.7)	210 (7.3)
Iowa	53 (4.1)	232 (1.3)	45 (4.2)	226 (1.5)	3 (1.3)	221 (4.7)
Kentucky	31 (4.8)	219 (2.0)	62 (4.8)	212 (1.3)	6 (2.5)	203 (3.7)
Louisiana	34 (5.2)	213 (2.9)	55 (5.5)	201 (2.3)	12 (3.3)	191 (4.4)
Maine	48 (5.4)	232 (1.2)	49 (5.4)	230 (1.8)	4 (1.8)	230 (5.7)
Maryland	54 (4.8)	220 (2.2)	42 (4.7)	214 (2.3)	4 (2.3)	192(10.0)
Massachusetts	48 (5.1)	228 (1.8)	47 (5.2)	224 (2.1)	5 (2.3)	221 (9.6)
Michigan	49 (5.4)	220 (3.0)	48 (5.4)	219 (2.2)	4 (1.8)	199(10.4)
Minnesota	52 (4.5)	229 (1.3)	45 (4.5)	226 (1.5)	3 (2.0)	211(12.6)
Mississippi	31 (4.7)	203 (2.5)	57 (4.9)	201 (1.7)	12 (3.3)	189 (3.9)
Missouri	47 (5.0)	224 (2.0)	47 (5.5)	220 (2.4)	7 (2.2)	216 (3.4)
Nebraska	56 (5.3)	225 (1.7)	39 (5.3)	224 (1.9)	5 (2.3)	226 (7.4)
New Hampshire	54 (5.1)	231 (1.5)	41 (5.0)	227 (1.8)	5 (2.3)	224 (6.8)
New Jersey	54 (5.0)	232 (1.8)	43 (5.0)	219 (2.8)	2 (0.9)	207(16.6)
New Mexico	37 (5.0)	215 (3.1)	55 (5.0)	212 (1.9)	9 (2.9)	199 (4.7)
New York	42 (5.3)	220 (3.1)	54 (5.2)	216 (1.6)	4 (1.9)	214 (4.7)
North Carolina	39 (4.6)	211 (2.3)	55 (4.6)	212 (1.4)	5 (1.7)	212 (6.3)
North Dakota	47 (5.1)	229 (1.2)	49 (4.8)	227 (1.2)	4 (1.8)	220 (4.3)
Ohio	43 (5.4)	222 (1.7)	47 (5.1)	215 (2.0)	9 (3.0)	208 (5.5)
Oklahoma	42 (4.9)	221 (1.6)	50 (5.0)	218 (1.6)	9 (2.8)	218 (3.6)
Pennsylvania	43 (5.0)	228 (1.9)	50 (5.2)	222 (2.2)	8 (2.4)	203 (6.6)
Rhode Island	32 (5.0)	217 (3.4)	62 (5.2)	214 (2.1)	6 (2.5)	200 (8.6)
South Carolina	39 (4.7)	216 (1.8)	51 (4.7)	208 (1.8)	10 (3.1)	206 (2.7)
Tennessee	40 (5.2)	209 (2.6)	51 (5.6)	211 (1.8)	9 (3.2)	202 (3.8)
Texas	42 (5.8)	219 (2.5)	51 (5.5)	215 (2.1)	6 (2.9)	211 (5.2)
Utah	36 (4.5)	226 (1.8)	55 (4.8)	221 (1.4)	10 (3.2)	219 (3.3)
Virginia	51 (4.7)	225 (2.3)	46 (4.8)	214 (2.1)	3 (1.6)	197 (3.5)
West Virginia	36 (4.1)	217 (1.9)	55 (4.4)	214 (1.3)	9 (2.8)	203 (2.9)
Wisconsin	54 (5.3)	230 (1.4)	43 (5.3)	226 (1.7)	3 (1.8)	214(16.9)
Wyoming	50 (4.9)	225 (1.2)	44 (4.7)	224 (1.4)	6 (2.4)	224 (4.2)
TERRITORY						
Guam	30 (0.2)	192 (2.0)	56 (0.2)	191 (1.1)	14 (0.1)	189 (2.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.19 | **Schools' Reports on the Regard for School Property (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	32 (3.3)	273 (1.7)	57 (3.2)	264 (1.5)	11 (2.2)	260 (4.2)
Northeast	40 (6.4)	274 (4.1)	57 (6.9)	260 (4.6)	3 (3.3)	*** (***)
Southeast	29 (6.6)	264 (2.0)	56 (7.4)	256 (2.4)	15 (4.5)	258 (5.0)
Central	34 (7.8)	277 (1.5)	54 (6.3)	273 (3.5)	13 (6.6)	265 (5.4)
West	28 (5.1)	275 (3.5)	60 (4.7)	268 (2.1)	12 (2.0)	252 (9.5)
STATES						
Alabama	5 (2.2)	269 (7.3)	69 (4.6)	253 (1.7)	27 (4.8)	243 (4.1)
Arizona	33 (5.2)	268 (3.1)	48 (5.6)	265 (2.0)	19 (3.8)	256 (2.5)
Arkansas	16 (4.2)	261 (3.5)	60 (5.2)	256 (1.7)	24 (4.3)	254 (2.8)
California	29 (5.1)	274 (3.3)	54 (5.2)	256 (2.3)	16 (3.9)	251 (3.5)
Colorado	35 (4.8)	273 (1.9)	53 (5.2)	272 (1.7)	12 (3.3)	264 (4.0)
Connecticut	41 (5.3)	276 (2.6)	54 (5.4)	271 (3.0)	5 (2.3)	274 (8.9)
Delaware	34 (0.2)	263 (1.8)	55 (0.2)	262 (1.2)	11 (0.1)	262 (3.9)
Dist. Columbia	31 (0.7)	235 (1.1)	56 (0.7)	231 (1.3)	12 (0.2)	218 (1.6)
Florida	28 (4.9)	266 (3.0)	54 (5.2)	259 (2.3)	18 (4.0)	249 (4.1)
Georgia	29 (5.2)	266 (2.6)	61 (5.8)	257 (1.6)	9 (2.8)	248 (6.1)
Hawaii	8 (0.2)	260 (3.1)	68 (0.3)	258 (1.0)	24 (0.3)	253 (2.1)
Idaho	25 (3.8)	276 (1.8)	61 (4.1)	274 (1.1)	14 (2.7)	274 (1.5)
Indiana	41 (5.7)	270 (2.1)	49 (5.8)	269 (2.0)	11 (2.9)	270 (5.1)
Iowa	36 (5.2)	285 (1.9)	56 (5.4)	283 (1.2)	8 (2.7)	271 (4.5)
Kentucky	23 (4.1)	267 (2.4)	60 (5.2)	260 (1.5)	16 (3.3)	261 (2.7)
Louisiana	22 (4.4)	262 (3.4)	55 (5.3)	247 (2.0)	23 (4.4)	241 (4.0)
Maine	39 (4.7)	280 (1.8)	56 (4.8)	277 (1.3)	6 (2.3)	275 (3.8)
Maryland	29 (4.8)	276 (3.0)	58 (5.9)	261 (2.4)	13 (3.8)	252 (6.5)
Massachusetts	29 (5.1)	276 (2.3)	61 (4.9)	274 (1.7)	10 (2.3)	250 (4.9)
Michigan	28 (4.6)	276 (4.8)	59 (4.9)	263 (2.2)	13 (2.8)	263 (4.0)
Minnesota	36 (4.9)	283 (1.5)	59 (5.1)	281 (1.4)	5 (2.6)	277 (2.2)
Mississippi	13 (2.7)	254 (2.8)	69 (4.5)	246 (1.8)	18 (3.2)	239 (2.8)
Missouri	38 (4.9)	272 (2.6)	57 (5.3)	270 (1.4)	5 (2.3)	267 (2.3)
Nebraska	41 (3.9)	278 (1.6)	48 (5.1)	278 (1.8)	11 (3.6)	277 (2.9)
New Hampshire	51 (4.2)	279 (1.4)	45 (4.3)	276 (1.5)	4 (1.9)	280 (3.2)
New Jersey	40 (6.0)	278 (3.2)	48 (6.1)	271 (2.6)	12 (3.8)	251 (9.4)
New Mexico	12 (3.3)	259 (2.4)	68 (4.5)	258 (1.2)	20 (3.1)	261 (2.5)
New York	38 (5.2)	278 (3.1)	49 (5.6)	262 (3.6)	13 (4.0)	245 (8.3)
North Carolina	40 (4.8)	259 (1.9)	47 (4.7)	259 (2.0)	13 (2.9)	249 (3.7)
North Dakota	33 (4.6)	284 (2.2)	54 (4.6)	282 (1.2)	13 (2.9)	281 (1.4)
Ohio	32 (3.5)	274 (3.0)	59 (4.0)	268 (2.4)	9 (2.3)	243 (7.2)
Oklahoma	23 (4.2)	266 (3.0)	64 (4.8)	269 (1.4)	13 (3.4)	265 (3.9)
Pennsylvania	36 (4.9)	274 (3.3)	57 (5.7)	269 (1.5)	7 (3.0)	269 (4.8)
Rhode Island	31 (0.1)	273 (1.4)	58 (0.2)	265 (1.0)	11 (0.2)	254 (1.6)
South Carolina	22 (3.9)	266 (3.0)	56 (5.1)	259 (1.5)	22 (4.3)	257 (3.1)
Tennessee	16 (4.0)	265 (3.0)	68 (4.6)	257 (1.8)	16 (3.4)	256 (2.0)
Texas	25 (4.9)	262 (2.8)	60 (5.1)	266 (2.3)	14 (2.8)	256 (3.2)
Utah	18 (3.3)	279 (2.1)	75 (4.2)	273 (0.9)	7 (2.8)	269 (3.7)
Virginia	39 (4.8)	266 (2.4)	55 (4.7)	269 (1.6)	6 (2.6)	263 (5.9)
West Virginia	19 (3.5)	262 (2.5)	59 (5.2)	258 (1.2)	22 (4.5)	255 (2.0)
Wisconsin	37 (5.8)	283 (2.2)	52 (6.1)	274 (2.3)	10 (3.1)	270 (5.9)
Wyoming	35 (3.8)	276 (1.5)	51 (4.3)	274 (1.5)	14 (2.4)	272 (1.9)
TERRITORIES						
Guam	17 (0.3)	244 (3.2)	13 (0.3)	216 (3.6)	70 (0.2)	235 (1.4)
Virgin Islands	0 (0.0)	*** (***)	21 (0.1)	216 (2.3)	79 (0.1)	223 (1.1)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

TABLE A.20 | **Schools' Reports on the Relations between Students and Teachers**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	75 (1.9)	219 (1.1)	25 (2.0)	213 (1.8)	0 (0.2)	*** (***)
Northeast	84 (5.3)	224 (2.7)	16 (5.3)	214 (8.8)	0 (0.0)	*** (***)
Southeast	75 (3.7)	210 (2.3)	24 (4.1)	206 (2.8)	1 (0.9)	*** (***)
Central	73 (3.5)	222 (1.8)	27 (3.5)	222 (4.2)	0 (0.0)	*** (***)
West	71 (3.4)	219 (2.2)	29 (3.4)	209 (2.9)	0 (0.0)	*** (***)
STATES						
Alabama	47 (4.8)	212 (2.8)	52 (4.8)	202 (1.9)	1 (0.9)	*** (***)
Arizona	68 (4.4)	215 (1.5)	30 (4.2)	211 (2.4)	1 (1.3)	*** (***)
Arkansas	51 (4.5)	211 (1.9)	46 (4.5)	207 (1.5)	2 (1.4)	194 (5.7)
California	76 (4.1)	211 (1.9)	23 (4.0)	195 (3.8)	1 (1.2)	*** (***)
Colorado	73 (4.3)	222 (1.2)	26 (4.3)	215 (2.3)	1 (0.5)	*** (***)
Connecticut	84 (3.8)	229 (1.4)	16 (3.8)	212 (3.9)	0 (0.0)	*** (***)
Delaware	66 (0.2)	216 (1.1)	32 (0.2)	218 (1.3)	2 (0.1)	*** (***)
Dist. Columbia	56 (0.3)	196 (0.9)	43 (0.3)	186 (0.8)	2 (0.1)	*** (***)
Florida	71 (4.2)	216 (1.4)	28 (4.3)	205 (5.3)	1 (0.5)	*** (***)
Georgia	64 (4.9)	218 (2.3)	36 (4.9)	207 (2.2)	0 (0.0)	*** (***)
Hawaii	45 (5.1)	214 (2.1)	55 (5.1)	213 (1.9)	0 (0.0)	*** (***)
Idaho	72 (4.5)	221 (1.1)	27 (4.5)	217 (2.1)	1 (0.5)	*** (***)
Indiana	74 (4.8)	220 (1.2)	26 (4.8)	218 (2.8)	0 (0.0)	*** (***)
Iowa	74 (4.0)	230 (1.2)	26 (4.0)	224 (2.4)	0 (0.0)	*** (***)
Kentucky	59 (5.1)	216 (1.4)	41 (5.1)	211 (1.6)	0 (0.0)	*** (***)
Louisiana	44 (5.0)	210 (2.6)	53 (4.9)	199 (2.3)	3 (1.7)	188 (5.5)
Maine	70 (5.6)	231 (1.1)	30 (5.6)	230 (2.2)	0 (0.0)	*** (***)
Maryland	69 (4.2)	219 (1.8)	29 (4.4)	212 (2.0)	2 (1.6)	*** (***)
Massachusetts	82 (4.1)	227 (1.3)	18 (4.1)	217 (4.0)	0 (0.0)	*** (***)
Michigan	70 (4.9)	221 (2.3)	30 (4.9)	213 (2.8)	0 (0.0)	*** (***)
Minnesota	80 (3.7)	229 (1.0)	20 (3.7)	221 (3.1)	0 (0.0)	*** (***)
Mississippi	45 (4.3)	204 (1.8)	54 (4.2)	198 (1.6)	1 (0.8)	*** (***)
Missouri	68 (4.3)	224 (1.7)	31 (4.3)	217 (2.4)	2 (1.3)	*** (***)
Nebraska	77 (4.7)	224 (1.4)	22 (4.7)	227 (2.9)	1 (0.6)	*** (***)
New Hampshire	86 (3.6)	229 (1.3)	14 (3.6)	226 (2.7)	0 (0.0)	*** (***)
New Jersey	80 (4.1)	229 (1.7)	20 (4.1)	216 (5.3)	0 (0.0)	*** (***)
New Mexico	73 (5.7)	215 (1.7)	27 (5.7)	204 (2.2)	0 (0.0)	*** (***)
New York	68 (5.0)	218 (2.0)	32 (5.0)	214 (2.3)	0 (0.0)	*** (***)
North Carolina	57 (4.2)	214 (2.0)	43 (4.2)	208 (1.6)	0 (0.0)	*** (***)
North Dakota	70 (4.4)	228 (1.0)	30 (4.4)	226 (1.7)	0 (0.0)	*** (***)
Ohio	72 (4.6)	220 (1.5)	28 (4.6)	210 (3.0)	0 (0.0)	*** (***)
Oklahoma	68 (4.3)	220 (1.3)	31 (4.2)	218 (1.9)	1 (0.8)	*** (***)
Pennsylvania	69 (5.0)	227 (1.7)	30 (4.9)	216 (3.4)	2 (1.2)	*** (***)
Rhode Island	70 (4.7)	215 (2.1)	29 (4.6)	214 (3.5)	1 (0.9)	*** (***)
South Carolina	57 (5.2)	214 (1.7)	42 (5.2)	207 (2.2)	1 (0.5)	*** (***)
Tennessee	56 (4.9)	210 (2.0)	41 (4.6)	210 (2.2)	3 (1.5)	184 (5.4)
Texas	65 (5.4)	219 (1.9)	31 (5.0)	213 (2.3)	4 (2.3)	215 (8.6)
Utah	71 (4.2)	224 (1.1)	27 (4.0)	220 (1.7)	2 (1.3)	*** (***)
Virginia	78 (4.4)	221 (1.7)	22 (4.4)	212 (3.7)	0 (0.0)	*** (***)
West Virginia	63 (4.5)	215 (1.2)	36 (4.5)	212 (2.0)	1 (0.6)	*** (***)
Wisconsin	76 (3.8)	228 (1.4)	24 (3.8)	225 (1.9)	0 (0.0)	*** (***)
Wyoming	72 (4.4)	224 (1.2)	28 (4.4)	224 (1.6)	0 (0.1)	*** (***)
TERRITORY						
Guam	71 (0.2)	191 (1.0)	29 (0.2)	190 (1.8)	0 (0.0)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.20 | **Schools' Reports on the Relations between Students and Teachers (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Very Positive		Somewhat Positive		Somewhat Negative or Very Negative	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	44 (3.6)	271 (1.6)	55 (3.6)	263 (1.6)	1 (0.5)	240 (9.5)
Northeast	51 (7.5)	276 (4.4)	46 (8.0)	258 (5.2)	3 (2.2)	*** (***)
Southeast	40 (7.6)	263 (3.1)	60 (7.6)	255 (2.1)	0 (0.0)	*** (***)
Central	36 (8.3)	276 (2.3)	64 (8.3)	272 (3.1)	0 (0.0)	*** (***)
West	49 (6.3)	270 (3.1)	50 (6.4)	266 (4.3)	1 (1.0)	*** (***)
STATES						
Alabama	20 (4.4)	258 (3.2)	77 (4.5)	250 (2.0)	3 (1.8)	242(10.8)
Arizona	56 (4.9)	269 (1.7)	44 (5.0)	259 (2.1)	1 (1.0)	*** (***)
Arkansas	24 (4.6)	259 (2.5)	71 (4.5)	255 (1.5)	4 (1.5)	250(10.3)
California	54 (4.3)	266 (2.5)	44 (4.4)	255 (2.3)	2 (1.5)	*** (***)
Colorado	47 (5.0)	273 (1.4)	49 (4.9)	270 (1.8)	4 (1.4)	260 (9.0)
Connecticut	61 (4.6)	276 (2.0)	39 (4.6)	269 (3.0)	0 (0.0)	*** (***)
Delaware	47 (0.3)	265 (1.2)	53 (0.3)	260 (1.5)	0 (0.0)	*** (***)
Dist. Columbia	45 (0.6)	233 (1.2)	55 (0.6)	229 (1.2)	0 (0.0)	*** (***)
Florida	50 (5.4)	265 (2.2)	48 (5.3)	255 (2.4)	2 (1.2)	*** (***)
Georgia	34 (4.9)	266 (2.5)	63 (5.0)	255 (1.4)	2 (1.4)	*** (***)
Hawaii	17 (0.2)	259 (2.4)	81 (0.3)	257 (0.9)	2 (0.2)	*** (***)
Idaho	49 (3.9)	274 (1.1)	49 (4.0)	275 (1.1)	3 (0.6)	275 (1.4)
Indiana	48 (5.8)	273 (1.8)	51 (5.8)	267 (1.6)	1 (0.8)	*** (***)
Iowa	55 (5.1)	285 (1.3)	42 (5.1)	282 (1.4)	3 (1.7)	260 (5.6)
Kentucky	33 (4.9)	261 (1.8)	64 (5.1)	262 (1.7)	3 (1.6)	258 (4.4)
Louisiana	39 (4.7)	257 (2.8)	60 (4.9)	244 (2.2)	1 (1.2)	*** (***)
Maine	52 (4.9)	280 (1.7)	47 (4.9)	276 (1.2)	1 (0.5)	*** (***)
Maryland	51 (5.3)	271 (2.4)	47 (5.1)	257 (2.5)	2 (1.2)	*** (***)
Massachusetts	48 (5.4)	278 (1.8)	52 (5.4)	267 (2.3)	0 (0.0)	*** (***)
Michigan	36 (5.6)	269 (3.6)	58 (5.7)	265 (2.5)	6 (2.3)	271 (5.5)
Minnesota	57 (3.8)	284 (1.1)	43 (3.8)	279 (1.6)	0 (0.0)	*** (***)
Mississippi	29 (4.6)	251 (3.1)	68 (4.9)	243 (1.4)	2 (1.4)	242 (6.5)
Missouri	39 (5.0)	272 (1.9)	57 (4.8)	270 (1.5)	3 (1.9)	265 (5.3)
Nebraska	57 (4.6)	279 (1.3)	42 (4.7)	276 (1.9)	1 (0.6)	*** (***)
New Hampshire	68 (4.1)	278 (1.1)	32 (4.1)	277 (1.8)	0 (0.0)	*** (***)
New Jersey	45 (5.4)	279 (3.4)	53 (5.6)	266 (2.6)	2 (1.5)	*** (***)
New Mexico	39 (4.2)	257 (2.1)	58 (4.3)	260 (1.1)	4 (1.2)	249 (2.8)
New York	45 (5.4)	275 (3.1)	51 (5.5)	261 (3.6)	4 (2.4)	227 (5.1)
North Carolina	42 (5.3)	259 (1.7)	55 (5.3)	257 (2.0)	3 (1.8)	256 (8.4)
North Dakota	62 (4.8)	284 (1.5)	35 (4.5)	280 (1.6)	4 (2.0)	276 (1.9)
Ohio	36 (4.9)	274 (3.3)	64 (4.9)	264 (2.1)	0 (0.0)	*** (***)
Oklahoma	47 (5.6)	267 (1.7)	52 (5.6)	268 (1.7)	1 (0.8)	*** (***)
Pennsylvania	39 (5.3)	276 (3.3)	59 (5.4)	268 (1.5)	2 (1.8)	*** (***)
Rhode Island	41 (0.2)	271 (1.3)	59 (0.2)	261 (1.0)	0 (0.0)	*** (***)
South Carolina	38 (4.6)	262 (1.9)	60 (5.0)	260 (1.6)	2 (1.4)	*** (***)
Tennessee	34 (5.1)	261 (2.4)	63 (5.3)	257 (1.8)	3 (1.7)	245(10.2)
Texas	43 (5.1)	268 (2.5)	54 (5.1)	261 (1.9)	3 (1.5)	257 (9.9)
Utah	58 (4.4)	274 (1.2)	40 (4.2)	273 (1.0)	2 (1.3)	*** (***)
Virginia	49 (4.9)	268 (2.2)	47 (5.0)	267 (1.5)	3 (1.7)	256 (6.1)
West Virginia	37 (5.0)	260 (1.7)	60 (4.8)	257 (1.2)	3 (1.7)	260 (2.0)
Wisconsin	38 (5.3)	280 (1.6)	57 (5.5)	276 (2.7)	5 (2.2)	269 (7.2)
Wyoming	53 (3.4)	273 (1.1)	44 (3.6)	276 (1.6)	3 (1.7)	272 (8.0)
TERRITORIES						
Guam	0 (0.0)	*** (***)	100 (0.0)	234 (1.2)	0 (0.0)	*** (***)
Virgin Islands	0 (0.0)	*** (***)	84 (0.1)	223 (1.1)	16 (0.1)	213 (2.2)

TABLE A.21 | **Schools' Reports on the Extent to Which District or School Testing Programs Had Served as an Impetus to Change Curriculum and Instructional Practices within the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	25 (3.1)	217 (2.2)	58 (3.0)	220 (1.4)	17 (2.2)	213 (2.0)
Northeast	33 (6.2)	222 (5.4)	46 (8.4)	230 (3.2)	21 (5.4)	213 (3.5)
Southeast	18 (4.2)	205 (4.9)	63 (4.6)	212 (2.6)	19 (4.8)	205 (3.0)
Central	27 (8.1)	222 (3.8)	56 (5.5)	223 (2.7)	16 (3.8)	222 (1.9)
West	22 (5.5)	213 (4.1)	63 (5.9)	218 (2.6)	15 (3.3)	214 (5.7)
STATES						
Alabama	18 (3.3)	202 (3.6)	73 (3.9)	208 (1.9)	9 (2.6)	207 (6.5)
Arizona	30 (4.4)	215 (2.8)	52 (5.0)	212 (1.9)	18 (4.1)	218 (2.9)
Arkansas	30 (4.4)	203 (2.5)	61 (4.4)	212 (1.4)	9 (3.0)	206 (3.4)
California	17 (4.1)	209 (3.9)	63 (5.0)	205 (2.1)	20 (4.3)	208 (5.7)
Colorado	18 (3.5)	218 (2.7)	54 (4.4)	218 (1.4)	27 (4.2)	224 (2.8)
Connecticut	41 (4.9)	221 (2.8)	48 (4.6)	229 (2.2)	11 (3.7)	234 (4.8)
Delaware	19 (0.2)	211 (2.1)	48 (0.3)	217 (1.4)	33 (0.2)	216 (1.4)
Dist. Columbia	36 (0.3)	186 (1.3)	49 (0.3)	194 (0.9)	15 (0.2)	194 (1.6)
Florida	19 (3.8)	205 (4.0)	64 (4.6)	214 (2.4)	17 (3.9)	214 (3.3)
Georgia	24 (4.3)	212 (4.6)	67 (4.8)	214 (1.7)	9 (3.2)	223 (5.4)
Hawaii	14 (3.3)	218 (3.5)	75 (4.3)	213 (1.6)	11 (3.5)	206 (4.7)
Idaho	12 (3.2)	223 (2.4)	61 (5.1)	219 (1.3)	26 (4.7)	223 (1.9)
Indiana	30 (4.6)	215 (2.4)	64 (5.2)	223 (1.2)	6 (2.6)	219 (5.0)
Iowa	12 (3.2)	228 (3.1)	62 (5.0)	228 (1.5)	26 (4.1)	233 (1.6)
Kentucky	32 (4.9)	214 (1.7)	57 (5.4)	213 (1.8)	10 (2.8)	216 (3.6)
Louisiana	38 (4.9)	201 (2.9)	57 (5.0)	205 (2.3)	5 (1.8)	199 (4.5)
Maine	10 (2.5)	231 (2.6)	64 (5.5)	230 (1.4)	26 (5.6)	231 (2.3)
Maryland	58 (5.0)	215 (2.0)	38 (4.8)	220 (3.1)	5 (2.3)	207 (3.1)
Massachusetts	8 (2.7)	233 (8.8)	50 (5.5)	223 (1.9)	42 (5.3)	227 (1.8)
Michigan	21 (3.8)	204 (5.4)	64 (5.1)	221 (1.9)	14 (3.8)	227 (4.7)
Minnesota	6 (2.1)	233 (4.1)	69 (4.5)	225 (1.3)	25 (4.5)	229 (1.9)
Mississippi	53 (4.7)	199 (1.5)	42 (4.2)	203 (2.5)	6 (2.8)	203 (4.8)
Missouri	33 (5.0)	220 (2.9)	58 (5.8)	220 (1.8)	8 (3.2)	229 (4.4)
Nebraska	16 (3.7)	219 (3.9)	61 (5.1)	227 (1.9)	23 (4.7)	222 (2.6)
New Hampshire	6 (2.5)	234 (3.9)	62 (5.2)	229 (1.7)	31 (4.8)	227 (2.1)
New Jersey	24 (4.2)	215 (4.4)	65 (4.6)	228 (1.9)	11 (3.1)	237 (3.3)
New Mexico	10 (3.1)	198 (4.2)	69 (4.8)	214 (2.0)	20 (4.5)	210 (2.8)
New York	16 (4.5)	220 (5.0)	68 (5.3)	218 (2.0)	16 (3.5)	212 (3.9)
North Carolina	37 (4.1)	208 (1.9)	58 (4.1)	214 (1.7)	5 (2.3)	209 (8.2)
North Dakota	19 (3.7)	226 (2.0)	54 (4.7)	229 (1.3)	27 (4.3)	227 (1.7)
Ohio	41 (5.9)	214 (2.4)	56 (6.1)	221 (1.7)	3 (1.7)	204(14.4)
Oklahoma	32 (3.9)	215 (2.0)	58 (4.4)	220 (1.2)	10 (2.0)	231 (3.4)
Pennsylvania	18 (3.7)	220 (3.7)	61 (4.9)	224 (2.2)	21 (4.2)	229 (3.1)
Rhode Island	5 (2.2)	202 (5.1)	63 (5.5)	214 (2.5)	32 (5.0)	217 (3.2)
South Carolina	19 (4.4)	206 (3.5)	72 (4.7)	213 (1.6)	9 (2.9)	209 (4.7)
Tennessee	24 (4.7)	206 (3.5)	64 (5.1)	211 (1.8)	12 (3.3)	210 (4.6)
Texas	40 (5.2)	214 (2.2)	50 (5.2)	218 (2.1)	10 (3.4)	220 (5.1)
Utah	31 (5.0)	222 (2.3)	59 (5.4)	223 (1.2)	10 (3.2)	224 (3.5)
Virginia	24 (4.0)	211 (3.1)	61 (4.8)	221 (1.7)	15 (3.7)	223 (4.7)
West Virginia	23 (3.5)	212 (2.3)	65 (4.1)	214 (1.3)	13 (3.3)	215 (2.7)
Wisconsin	13 (3.1)	224 (3.5)	66 (5.2)	228 (1.6)	21 (4.0)	227 (2.6)
Wyoming	23 (4.5)	223 (1.7)	60 (4.5)	225 (1.2)	17 (3.4)	222 (2.4)
TERRITORY						
Guam	41 (0.3)	195 (1.8)	55 (0.3)	192 (1.1)	4 (0.1)	188 (2.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.21 | **Schools' Reports on the Extent to Which District or School Testing Programs Had Served as an Impetus to Change Curriculum and Instructional Practices within the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	22 (3.3)	259 (2.3)	52 (4.0)	264 (1.5)	26 (3.5)	276 (3.0)
Northeast	24 (7.2)	260 (4.5)	33 (7.4)	258 (4.1)	43 (8.2)	275 (6.0)
Southeast	25 (7.5)	259 (3.6)	61 (7.8)	258 (1.9)	14 (6.8)	261 (2.2)
Central	12 (3.8)	264 (8.6)	67 (6.6)	272 (3.1)	21 (7.1)	284 (2.9)
West	26 (6.8)	257 (3.8)	44 (8.2)	267 (2.7)	29 (6.9)	279 (6.1)
STATES						
Alabama	20 (3.8)	247 (6.0)	54 (5.6)	253 (2.2)	26 (4.4)	252 (3.7)
Arizona	17 (4.2)	261 (4.6)	70 (4.9)	266 (1.8)	13 (3.5)	262 (6.1)
Arkansas	29 (4.5)	253 (2.8)	64 (4.6)	256 (1.5)	7 (2.6)	254 (3.5)
California	23 (3.6)	259 (3.8)	51 (5.2)	260 (2.2)	26 (5.0)	264 (3.9)
Colorado	16 (3.6)	268 (3.0)	64 (5.4)	272 (1.5)	20 (4.5)	274 (2.9)
Connecticut	29 (4.4)	265 (4.0)	61 (4.5)	276 (2.1)	10 (2.8)	283 (3.1)
Delaware	8 (0.1)	255 (2.7)	54 (0.2)	258 (1.5)	38 (0.2)	268 (1.7)
Dist. Columbia	28 (0.5)	229 (1.9)	66 (0.5)	226 (1.2)	7 (0.3)	236 (4.4)
Florida	12 (3.5)	259 (4.2)	69 (4.7)	258 (2.2)	19 (3.9)	262 (3.0)
Georgia	19 (3.8)	258 (4.2)	68 (4.8)	258 (1.6)	13 (4.2)	261 (5.6)
Hawaii	14 (0.3)	246 (2.3)	67 (0.3)	257 (1.2)	19 (0.2)	265 (2.0)
Idaho	6 (2.6)	276 (2.4)	74 (4.1)	275 (1.0)	21 (3.6)	273 (1.6)
Indiana	13 (3.6)	276 (2.3)	70 (4.2)	269 (1.5)	17 (2.5)	267 (3.4)
Iowa	9 (3.1)	278 (3.8)	66 (5.9)	284 (1.2)	26 (5.5)	280 (2.7)
Kentucky	23 (4.4)	263 (3.3)	61 (5.3)	261 (1.7)	16 (4.1)	261 (1.8)
Louisiana	23 (3.8)	243 (4.4)	65 (4.1)	250 (2.0)	12 (3.4)	251 (4.0)
Maine	18 (4.1)	280 (2.6)	51 (5.2)	278 (1.7)	31 (4.8)	276 (1.6)
Maryland	45 (5.8)	264 (2.6)	47 (5.8)	266 (2.8)	8 (2.6)	260 (4.8)
Massachusetts	10 (3.1)	275 (4.8)	61 (4.9)	270 (2.0)	29 (4.1)	273 (2.6)
Michigan	19 (3.8)	257 (3.9)	60 (5.4)	267 (2.1)	21 (4.0)	272 (3.5)
Minnesota	10 (3.7)	282 (3.7)	66 (5.1)	280 (1.3)	23 (4.3)	285 (2.0)
Mississippi	34 (4.3)	244 (2.5)	60 (4.0)	248 (1.8)	6 (2.1)	249 (4.3)
Missouri	30 (4.6)	267 (2.7)	56 (4.7)	273 (1.5)	14 (3.9)	268 (3.5)
Nebraska	16 (3.2)	269 (3.1)	61 (5.3)	280 (1.4)	23 (4.5)	277 (2.2)
New Hampshire	5 (2.1)	274 (5.4)	55 (4.4)	276 (1.2)	39 (4.5)	281 (1.6)
New Jersey	40 (5.4)	264 (3.2)	52 (5.6)	275 (2.5)	8 (3.4)	287 (3.7)
New Mexico	12 (2.8)	258 (3.7)	69 (4.1)	256 (1.0)	20 (3.7)	267 (2.5)
New York	17 (4.0)	247 (8.2)	56 (6.1)	269 (3.2)	27 (5.2)	273 (4.6)
North Carolina	34 (5.0)	253 (1.7)	58 (5.3)	262 (1.5)	8 (2.8)	256 (4.7)
North Dakota	23 (3.9)	278 (2.6)	47 (3.8)	285 (1.5)	29 (3.7)	282 (1.4)
Ohio	44 (5.6)	264 (3.0)	52 (5.6)	272 (2.3)	4 (2.2)	268 (5.2)
Oklahoma	19 (3.8)	260 (3.2)	71 (4.5)	269 (1.5)	10 (2.8)	270 (2.9)
Pennsylvania	11 (3.6)	266 (6.7)	64 (5.1)	271 (2.0)	25 (4.5)	275 (3.3)
Rhode Island	8 (0.1)	267 (3.1)	59 (0.2)	264 (0.9)	33 (0.2)	269 (1.3)
South Carolina	31 (4.3)	259 (2.2)	55 (4.8)	261 (1.7)	13 (3.2)	262 (2.9)
Tennessee	18 (4.3)	260 (2.4)	64 (4.8)	255 (2.1)	17 (4.3)	264 (3.6)
Texas	32 (4.8)	262 (2.4)	56 (4.6)	264 (1.9)	12 (3.9)	268 (9.1)
Utah	23 (4.2)	271 (1.3)	66 (4.8)	274 (0.9)	11 (2.9)	276 (2.4)
Virginia	16 (3.5)	259 (3.3)	61 (5.4)	269 (1.8)	21 (4.5)	271 (3.6)
West Virginia	15 (3.4)	257 (2.8)	63 (4.5)	257 (1.2)	22 (4.1)	261 (1.6)
Wisconsin	8 (2.7)	268 (5.6)	71 (5.2)	278 (2.1)	21 (4.4)	278 (2.9)
Wyoming	10 (2.6)	270 (2.0)	72 (4.3)	276 (0.9)	18 (3.7)	273 (3.3)
TERRITORIES						
Guam	0 (0.0)	*** (***)	56 (0.2)	235 (1.4)	44 (0.2)	233 (2.1)
Virgin Islands	34 (0.2)	232 (1.3)	66 (0.2)	219 (1.5)	0 (0.0)	*** (***)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.22 | **Schools' Reports on the Extent to Which State Testing Mandates Had Served as an Impetus to Change Curriculum and Instructional Practices within the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	31 (3.3)	216 (2.1)	54 (3.3)	219 (1.5)	15 (2.3)	217 (2.8)
Northeast	30 (6.6)	218 (5.1)	53 (6.0)	228 (3.3)	17 (5.5)	218 (5.8)
Southeast	22 (6.9)	204 (6.8)	64 (5.4)	210 (2.3)	14 (4.2)	212 (3.5)
Central	38 (6.0)	223 (3.2)	46 (6.8)	222 (3.5)	16 (4.3)	225 (5.1)
West	33 (7.2)	216 (3.8)	52 (7.4)	217 (2.8)	15 (4.2)	214 (3.7)
STATES						
Alabama	26 (4.5)	210 (3.1)	58 (5.1)	206 (1.8)	16 (3.9)	207 (6.4)
Arizona	33 (4.7)	213 (2.7)	62 (4.9)	215 (2.0)	6 (2.5)	214 (6.6)
Arkansas	55 (4.9)	207 (1.4)	44 (4.9)	211 (1.8)	1 (0.8)	*** (***)
California	25 (4.9)	207 (3.8)	65 (5.3)	206 (2.2)	10 (3.4)	211 (9.8)
Colorado	11 (3.0)	227 (3.5)	42 (4.9)	215 (1.7)	47 (5.3)	223 (1.9)
Connecticut	56 (5.1)	225 (2.4)	41 (4.9)	228 (1.9)	3 (1.9)	240 (4.2)
Delaware	28 (0.3)	213 (2.3)	47 (0.3)	217 (0.9)	25 (0.2)	216 (1.8)
Dist. Columbia	35 (0.4)	184 (1.2)	39 (0.3)	197 (1.1)	27 (0.3)	193 (1.2)
Florida	19 (4.7)	208 (6.5)	64 (5.3)	213 (1.8)	16 (4.0)	215 (4.0)
Georgia	35 (4.8)	211 (3.0)	50 (5.5)	216 (1.9)	15 (4.4)	217 (7.3)
Hawaii	28 (4.6)	215 (2.6)	63 (4.9)	212 (1.9)	9 (3.1)	208 (5.0)
Idaho	14 (3.4)	222 (2.3)	46 (4.4)	220 (1.4)	40 (4.2)	221 (1.6)
Indiana	49 (5.2)	218 (1.8)	49 (5.2)	222 (1.5)	2 (1.4)	*** (***)
Iowa	6 (2.4)	232 (1.9)	28 (4.2)	228 (2.5)	66 (4.6)	229 (1.4)
Kentucky	56 (5.3)	212 (1.4)	42 (5.3)	215 (1.7)	3 (1.7)	220 (7.4)
Louisiana	46 (4.3)	203 (2.6)	52 (4.3)	203 (2.6)	2 (1.2)	202 (3.2)
Maine	24 (4.8)	230 (1.4)	71 (5.0)	230 (1.4)	5 (2.2)	236 (5.5)
Maryland	74 (4.6)	216 (1.7)	26 (4.6)	218 (4.5)	0 (0.0)	*** (***)
Massachusetts	6 (2.3)	226 (8.3)	56 (5.4)	224 (1.7)	38 (5.6)	228 (2.3)
Michigan	43 (5.8)	217 (2.4)	54 (5.9)	219 (3.1)	3 (2.1)	225(11.9)
Minnesota	7 (2.7)	228 (2.9)	45 (5.6)	226 (2.1)	47 (5.4)	227 (1.6)
Mississippi	67 (5.2)	200 (1.4)	30 (5.0)	201 (3.4)	3 (1.6)	208 (4.3)
Missouri	50 (5.5)	220 (2.2)	46 (5.4)	222 (1.8)	4 (2.2)	230 (4.6)
Nebraska	7 (2.1)	222 (3.8)	41 (5.1)	227 (2.3)	52 (5.3)	223 (1.8)
New Hampshire	3 (1.5)	*** (***)	47 (5.8)	228 (2.0)	51 (5.9)	229 (1.6)
New Jersey	32 (5.2)	221 (3.9)	58 (5.6)	226 (2.2)	10 (3.0)	238 (3.6)
New Mexico	16 (5.3)	208 (3.3)	65 (5.6)	212 (1.9)	19 (4.8)	215 (4.4)
New York	32 (5.1)	224 (3.4)	60 (5.8)	215 (2.2)	8 (3.5)	212 (9.4)
North Carolina	62 (4.4)	209 (1.1)	36 (4.3)	215 (2.0)	2 (1.5)	221(22.3)
North Dakota	17 (3.9)	226 (2.4)	60 (5.4)	229 (1.0)	23 (4.3)	226 (2.1)
Ohio	49 (4.8)	215 (1.9)	48 (5.0)	221 (2.2)	3 (1.9)	204(14.7)
Oklahoma	42 (4.3)	216 (1.3)	50 (4.9)	220 (1.5)	8 (2.5)	235 (2.7)
Pennsylvania	12 (3.3)	224 (3.9)	65 (4.8)	224 (2.0)	24 (4.1)	224 (3.5)
Rhode Island	9 (2.8)	200 (6.1)	61 (5.4)	217 (2.0)	30 (4.8)	214 (4.7)
South Carolina	34 (5.1)	210 (2.4)	62 (5.1)	210 (1.7)	4 (1.8)	228 (6.5)
Tennessee	35 (5.2)	205 (2.6)	59 (5.3)	212 (1.9)	6 (2.6)	210 (5.5)
Texas	66 (5.0)	217 (1.8)	29 (4.8)	216 (3.4)	5 (1.6)	215 (7.5)
Utah	35 (5.0)	224 (2.1)	55 (4.6)	222 (1.2)	10 (3.1)	226 (3.4)
Virginia	30 (4.1)	208 (2.3)	58 (5.0)	223 (1.7)	12 (3.6)	229 (4.3)
West Virginia	26 (4.1)	213 (2.3)	60 (4.3)	214 (1.4)	14 (3.2)	214 (2.4)
Wisconsin	20 (4.2)	227 (3.0)	59 (5.8)	226 (1.6)	21 (4.0)	232 (2.4)
Wyoming	8 (2.9)	219 (2.8)	34 (4.2)	225 (1.4)	58 (5.2)	224 (1.3)
TERRITORY						
Guam	25 (0.2)	194 (2.8)	57 (0.3)	194 (0.9)	18 (0.2)	187 (1.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.22 | **Schools' Reports on the Extent to Which State Testing Mandates Had Served as an Impetus to Change Curriculum and Instructional Practices within the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	33 (3.8)	261 (1.8)	48 (4.0)	267 (1.8)	19 (3.1)	274 (4.1)
Northeast	40 (7.3)	254 (2.4)	47 (9.0)	275 (4.1)	14 (6.8)	268(12.7)
Southeast	30 (6.4)	260 (2.9)	60 (7.4)	260 (2.3)	10 (4.5)	246 (6.3)
Central	31 (6.5)	268 (5.0)	41 (7.4)	270 (2.2)	28 (6.8)	284 (3.0)
West	34 (9.2)	261 (4.0)	43 (7.9)	269 (4.4)	23 (7.0)	277 (6.9)
STATES						
Alabama	24 (3.9)	250 (5.0)	64 (4.5)	252 (2.1)	12 (3.5)	252 (4.2)
Arizona	36 (5.0)	261 (2.1)	56 (5.6)	267 (2.1)	8 (2.8)	259(10.8)
Arkansas	59 (4.7)	252 (1.7)	41 (4.7)	260 (2.0)	0 (0.0)	*** (***)
California	30 (4.2)	259 (3.5)	58 (5.1)	260 (2.0)	11 (3.7)	270 (6.9)
Colorado	10 (3.0)	266 (3.3)	46 (5.1)	270 (1.9)	44 (5.1)	275 (1.9)
Connecticut	40 (5.0)	269 (3.0)	56 (5.1)	276 (2.5)	4 (1.8)	286 (5.0)
Delaware	16 (0.2)	257 (2.2)	63 (0.2)	261 (1.4)	21 (0.2)	267 (3.0)
Dist. Columbia	34 (0.4)	231 (1.6)	50 (0.5)	225 (1.4)	16 (0.4)	228 (2.8)
Florida	15 (3.8)	263 (4.1)	65 (5.2)	257 (2.2)	20 (4.2)	261 (3.6)
Georgia	24 (4.6)	255 (3.6)	65 (4.6)	259 (1.7)	11 (3.4)	264 (6.6)
Hawaii	29 (0.4)	248 (1.9)	57 (0.4)	261 (1.2)	15 (0.1)	259 (1.8)
Idaho	9 (2.8)	275 (1.5)	69 (3.9)	275 (1.0)	22 (2.9)	273 (1.7)
Indiana	26 (5.0)	271 (2.8)	60 (5.8)	270 (1.6)	14 (3.1)	268 (4.9)
Iowa	9 (3.0)	278 (2.1)	23 (4.4)	283 (2.1)	68 (5.4)	283 (1.5)
Kentucky	48 (5.1)	262 (1.9)	49 (4.9)	262 (1.7)	3 (1.8)	265 (7.4)
Louisiana	41 (4.9)	247 (3.3)	54 (4.6)	250 (2.1)	4 (2.1)	247 (5.0)
Maine	32 (5.2)	277 (1.9)	49 (5.5)	279 (1.5)	19 (3.6)	278 (2.2)
Maryland	63 (5.8)	266 (2.1)	32 (5.4)	265 (3.2)	5 (3.0)	252 (3.9)
Massachusetts	13 (3.6)	270 (3.8)	62 (5.3)	271 (2.2)	25 (4.7)	275 (3.1)
Michigan	46 (5.6)	260 (2.6)	50 (5.6)	270 (2.7)	4 (2.0)	282 (4.9)
Minnesota	2 (1.7)	*** (***)	61 (5.7)	281 (1.3)	37 (5.5)	282 (1.7)
Mississippi	47 (4.9)	244 (2.3)	48 (5.1)	247 (1.9)	5 (3.1)	258 (6.0)
Missouri	47 (4.9)	269 (2.0)	51 (4.9)	272 (1.5)	2 (1.4)	*** (***)
Nebraska	4 (1.8)	275 (6.2)	50 (5.4)	277 (1.5)	46 (5.2)	279 (1.7)
New Hampshire	2 (1.9)	*** (***)	37 (4.8)	276 (1.4)	61 (5.0)	279 (1.3)
New Jersey	59 (5.4)	266 (2.6)	37 (5.7)	279 (3.4)	4 (2.4)	279(14.3)
New Mexico	23 (3.7)	263 (1.8)	60 (4.1)	255 (1.3)	17 (3.1)	265 (2.2)
New York	35 (5.9)	257 (5.0)	55 (6.4)	272 (2.9)	11 (3.9)	270 (9.3)
North Carolina	62 (4.7)	255 (1.4)	36 (4.5)	263 (2.1)	2 (1.6)	*** (***)
North Dakota	16 (2.7)	278 (2.8)	44 (4.7)	283 (1.7)	41 (4.7)	284 (1.4)
Ohio	62 (5.7)	266 (2.5)	34 (5.1)	271 (2.3)	4 (2.2)	270 (5.1)
Oklahoma	40 (5.0)	265 (2.1)	56 (5.3)	269 (1.4)	5 (2.2)	271 (3.7)
Pennsylvania	13 (3.3)	266 (4.5)	63 (5.3)	269 (1.9)	24 (4.6)	279 (2.2)
Rhode Island	12 (0.1)	259 (2.1)	66 (0.2)	267 (1.0)	22 (0.2)	267 (1.8)
South Carolina	41 (4.7)	255 (1.8)	54 (4.8)	263 (1.9)	6 (1.9)	267 (5.3)
Tennessee	32 (4.6)	261 (2.3)	63 (5.1)	256 (2.1)	5 (2.5)	255 (5.1)
Texas	61 (5.1)	262 (1.9)	35 (4.6)	265 (2.6)	5 (2.8)	284 (9.8)
Utah	26 (4.0)	274 (1.4)	64 (4.4)	273 (1.0)	10 (2.5)	278 (1.9)
Virginia	30 (4.7)	266 (3.1)	54 (5.8)	266 (2.3)	16 (4.2)	275 (3.4)
West Virginia	26 (4.6)	257 (2.0)	57 (4.5)	259 (1.4)	17 (3.8)	257 (2.1)
Wisconsin	11 (3.0)	272 (5.9)	59 (5.4)	279 (2.3)	30 (4.2)	275 (2.9)
Wyoming	5 (1.9)	274 (2.5)	28 (3.6)	276 (2.1)	66 (4.1)	275 (1.1)
TERRITORIES						
Guam	0 (0.0)	*** (***)	43 (0.4)	235 (1.1)	57 (0.4)	229 (2.2)
Virgin Islands	56 (0.2)	225 (1.3)	44 (0.2)	221 (2.0)	0 (0.0)	*** (***)

TABLE A.23 | **Schools' Reports on the Extent to Which Public Reporting of School or District Performance Data Had Served as an Impetus to Change Curriculum and Instructional Practices within the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (2.6)	215 (3.0)	59 (3.8)	218 (1.4)	20 (2.7)	219 (2.9)
Northeast	23 (6.1)	216 (7.9)	60 (8.2)	227 (3.3)	17 (5.8)	220 (8.4)
Southeast	17 (4.8)	205 (8.9)	62 (8.5)	208 (1.7)	21 (5.5)	216 (7.0)
Central	22 (5.7)	221 (5.5)	63 (8.0)	223 (2.9)	14 (6.5)	224 (4.7)
West	21 (4.1)	214 (3.9)	52 (5.3)	217 (2.9)	27 (3.8)	218 (3.3)
STATES						
Alabama	20 (4.1)	208 (3.5)	63 (5.0)	206 (1.8)	17 (3.1)	211 (5.6)
Arizona	21 (3.9)	217 (2.7)	56 (4.6)	213 (2.2)	23 (4.4)	213 (3.7)
Arkansas	33 (4.4)	204 (2.0)	59 (4.6)	211 (1.5)	8 (2.9)	206 (2.5)
California	12 (3.6)	207 (4.4)	62 (5.1)	209 (2.4)	26 (4.6)	201 (4.6)
Colorado	18 (3.5)	218 (2.7)	56 (4.8)	220 (1.6)	26 (4.1)	221 (2.5)
Connecticut	30 (4.6)	219 (3.1)	50 (5.0)	229 (2.0)	20 (4.0)	234 (3.3)
Delaware	8 (0.1)	211 (3.0)	68 (0.3)	216 (1.2)	24 (0.2)	217 (1.9)
Dist. Columbia	32 (0.3)	188 (1.2)	50 (0.4)	190 (1.0)	18 (0.2)	200 (1.6)
Florida	18 (4.5)	215 (5.2)	64 (5.5)	211 (1.9)	18 (4.2)	217 (3.2)
Georgia	22 (3.9)	211 (4.4)	64 (4.8)	215 (1.9)	14 (3.6)	216 (3.8)
Hawaii	22 (4.5)	214 (3.5)	66 (5.1)	213 (1.6)	12 (2.5)	210 (5.6)
Idaho	8 (2.7)	226 (2.8)	60 (4.5)	220 (1.1)	32 (4.4)	220 (2.0)
Indiana	23 (4.6)	219 (3.2)	62 (5.0)	221 (1.6)	15 (3.1)	218 (2.7)
Iowa	10 (3.1)	228 (2.4)	39 (4.4)	227 (2.0)	50 (5.0)	231 (1.4)
Kentucky	21 (4.3)	210 (2.2)	62 (5.3)	214 (1.3)	17 (3.4)	217 (3.1)
Louisiana	28 (4.6)	204 (3.3)	63 (4.8)	201 (1.8)	9 (2.9)	212 (4.6)
Maine	14 (3.9)	232 (2.3)	66 (5.3)	231 (1.5)	19 (4.3)	230 (2.2)
Maryland	42 (4.9)	217 (2.6)	49 (4.9)	215 (2.6)	9 (3.0)	223 (7.1)
Massachusetts	10 (2.8)	220 (6.6)	59 (5.4)	224 (1.8)	31 (5.2)	230 (2.2)
Michigan	25 (4.8)	219 (3.5)	66 (5.1)	218 (2.4)	9 (3.1)	214 (9.5)
Minnesota	11 (4.0)	226 (1.8)	56 (5.3)	227 (1.6)	33 (4.7)	226 (1.9)
Mississippi	42 (4.4)	196 (1.7)	48 (4.8)	202 (1.9)	10 (3.0)	214 (4.1)
Missouri	13 (3.7)	221 (4.8)	59 (5.7)	220 (2.0)	28 (5.1)	223 (2.3)
Nebraska	16 (4.3)	227 (4.4)	51 (4.8)	224 (2.0)	33 (5.4)	223 (2.3)
New Hampshire	5 (2.4)	221 (3.5)	44 (6.1)	230 (1.9)	50 (6.1)	229 (1.6)
New Jersey	20 (4.7)	220 (5.3)	60 (5.3)	224 (2.2)	20 (4.7)	236 (2.7)
New Mexico	9 (3.1)	202 (3.9)	61 (5.4)	212 (2.5)	31 (5.0)	214 (2.5)
New York	20 (4.6)	221 (4.7)	58 (5.4)	216 (2.5)	22 (5.0)	216 (2.6)
North Carolina	45 (4.8)	209 (1.8)	51 (5.0)	213 (1.6)	4 (2.0)	218 (5.2)
North Dakota	7 (2.5)	225 (3.9)	53 (5.1)	229 (1.1)	39 (5.3)	226 (1.4)
Ohio	29 (4.5)	211 (2.9)	64 (4.5)	221 (1.5)	7 (1.8)	216 (5.2)
Oklahoma	24 (4.0)	216 (2.2)	62 (5.0)	220 (1.1)	14 (3.7)	224 (3.9)
Pennsylvania	12 (3.3)	224 (4.9)	59 (4.4)	223 (2.0)	28 (4.2)	227 (2.4)
Rhode Island	8 (2.4)	199 (5.2)	60 (5.2)	215 (2.2)	32 (4.7)	216 (4.4)
South Carolina	23 (4.5)	212 (3.1)	65 (5.4)	210 (1.4)	12 (3.6)	217 (3.5)
Tennessee	15 (4.0)	205 (4.6)	63 (5.1)	212 (1.9)	22 (4.1)	207 (2.7)
Texas	42 (5.4)	213 (2.0)	51 (5.5)	218 (2.0)	7 (2.4)	225 (6.7)
Utah	26 (5.0)	223 (2.7)	60 (5.0)	223 (1.0)	14 (3.7)	222 (3.5)
Virginia	24 (4.5)	210 (3.5)	57 (5.2)	220 (1.7)	18 (4.3)	227 (4.1)
West Virginia	22 (3.6)	212 (2.4)	52 (4.6)	214 (1.5)	26 (4.0)	216 (2.3)
Wisconsin	16 (3.5)	226 (3.5)	64 (5.4)	227 (1.6)	20 (4.1)	231 (2.6)
Wyoming	10 (3.2)	221 (3.9)	61 (5.2)	224 (1.3)	29 (4.9)	225 (1.6)
TERRITORY						
Guam	24 (0.2)	193 (2.0)	65 (0.2)	195 (1.1)	11 (0.1)	182 (3.8)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.23 **Schools' Reports on the Extent to Which Public Reporting of School or District Performance Data Had Served as an Impetus to Change Curriculum and Instructional Practices within the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	20 (3.0)	261 (2.5)	54 (4.4)	264 (1.8)	26 (3.4)	275 (2.5)
Northeast	34 (6.9)	256 (4.2)	36 (8.9)	265 (5.9)	30 (9.0)	278 (6.7)
Southeast	21 (7.2)	259 (3.1)	63(10.4)	258 (2.2)	16 (4.9)	263 (3.6)
Central	9 (4.7)	265(10.1)	58(10.2)	269 (2.8)	33 (9.0)	284 (2.9)
West	21 (5.4)	268 (5.0)	52 (5.3)	268 (4.5)	28 (5.0)	270 (5.1)
STATES						
Alabama	12 (3.6)	243 (9.0)	66 (5.0)	252 (2.1)	22 (4.3)	256 (3.0)
Arizona	11 (3.8)	259 (5.8)	73 (5.3)	266 (1.8)	16 (4.1)	263 (4.6)
Arkansas	28 (4.2)	252 (2.8)	62 (4.7)	256 (1.5)	10 (2.9)	257 (4.8)
California	19 (3.7)	252 (3.8)	58 (5.5)	262 (2.4)	23 (4.9)	264 (4.0)
Colorado	23 (4.3)	268 (2.2)	64 (5.3)	273 (1.7)	13 (3.8)	272 (4.3)
Connecticut	23 (4.3)	262 (6.2)	63 (5.1)	278 (1.7)	14 (3.6)	273 (6.7)
Delaware	21 (0.2)	267 (1.7)	66 (0.2)	258 (1.5)	13 (0.2)	269 (2.8)
Dist. Columbia	44 (0.5)	230 (1.5)	56 (0.5)	226 (1.4)	0 (0.0)	*** (***)
Florida	16 (3.5)	263 (3.9)	60 (5.6)	258 (1.9)	25 (4.7)	259 (3.9)
Georgia	10 (3.0)	258 (5.9)	71 (4.9)	257 (1.6)	19 (4.9)	263 (3.6)
Hawaii	40 (0.3)	254 (1.6)	51 (0.3)	258 (1.1)	9 (0.1)	266 (3.3)
Idaho	7 (2.8)	273 (2.0)	58 (4.2)	276 (1.2)	35 (3.5)	272 (1.5)
Indiana	16 (3.6)	268 (4.4)	61 (4.9)	269 (1.4)	23 (4.2)	272 (3.5)
Iowa	1 (0.9)	*** (***)	60 (5.5)	285 (1.1)	39 (5.4)	280 (1.9)
Kentucky	13 (3.7)	262 (3.8)	72 (4.9)	262 (1.6)	15 (3.9)	261 (2.5)
Louisiana	28 (4.0)	244 (4.3)	58 (4.9)	249 (2.2)	14 (3.8)	254 (2.9)
Maine	19 (4.4)	278 (2.2)	64 (5.7)	278 (1.4)	17 (3.7)	279 (2.8)
Maryland	43 (5.6)	266 (2.7)	48 (5.6)	265 (2.6)	9 (3.4)	257 (7.3)
Massachusetts	18 (3.7)	272 (3.1)	58 (5.3)	270 (2.3)	26 (4.7)	274 (2.9)
Michigan	28 (4.9)	261 (3.1)	63 (5.3)	267 (2.4)	9 (3.2)	274 (6.0)
Minnesota	8 (3.1)	275 (2.8)	69 (5.0)	281 (1.3)	23 (3.9)	285 (1.5)
Mississippi	37 (5.1)	243 (2.5)	54 (5.4)	247 (1.9)	9 (2.7)	253 (4.8)
Missouri	13 (2.6)	264 (4.9)	64 (4.9)	272 (1.4)	23 (4.3)	271 (1.9)
Nebraska	6 (2.8)	273 (5.4)	51 (5.1)	276 (1.6)	43 (5.2)	280 (1.5)
New Hampshire	3 (2.0)	*** (***)	63 (4.5)	277 (1.3)	35 (4.6)	280 (1.7)
New Jersey	37 (5.5)	267 (3.8)	47 (6.0)	272 (2.7)	16 (4.8)	278 (7.4)
New Mexico	16 (2.7)	258 (2.5)	70 (4.1)	259 (1.2)	13 (3.2)	260 (3.0)
New York	19 (4.6)	258 (7.9)	71 (5.3)	267 (2.7)	11 (3.3)	277 (4.2)
North Carolina	37 (4.8)	254 (1.9)	61 (4.9)	261 (1.5)	2 (1.5)	*** (***)
North Dakota	5 (1.4)	277 (3.8)	54 (4.8)	281 (1.5)	41 (4.8)	285 (1.4)
Ohio	36 (5.5)	269 (3.4)	56 (5.3)	268 (2.5)	8 (3.0)	266 (7.3)
Oklahoma	22 (3.6)	261 (3.0)	61 (4.5)	268 (1.6)	16 (3.7)	275 (2.2)
Pennsylvania	11 (2.9)	262 (7.2)	63 (5.3)	270 (1.5)	26 (4.7)	277 (2.5)
Rhode Island	6 (0.1)	260 (3.0)	74 (0.2)	266 (0.9)	20 (0.2)	269 (1.3)
South Carolina	25 (4.7)	259 (2.7)	61 (5.9)	262 (1.9)	14 (4.3)	259 (3.3)
Tennessee	17 (4.0)	260 (3.6)	64 (5.2)	256 (1.7)	19 (4.5)	263 (3.2)
Texas	34 (4.4)	261 (2.7)	58 (4.8)	264 (2.0)	7 (2.9)	274(10.1)
Utah	20 (4.0)	273 (1.5)	60 (5.0)	273 (1.0)	20 (3.9)	275 (2.0)
Virginia	14 (3.5)	261 (4.5)	68 (5.2)	267 (1.6)	19 (4.1)	275 (3.7)
West Virginia	17 (4.0)	258 (2.4)	64 (4.8)	257 (1.3)	19 (4.0)	260 (2.2)
Wisconsin	10 (2.3)	260 (7.1)	62 (4.6)	278 (2.2)	28 (4.6)	280 (2.1)
Wyoming	13 (2.5)	270 (2.3)	57 (4.1)	276 (1.4)	30 (3.5)	276 (1.2)
TERRITORIES						
Guam	0 (0.0)	*** (***)	43 (0.4)	235 (1.1)	57 (0.4)	229 (2.2)
Virgin Islands	59 (0.2)	225 (1.3)	41 (0.2)	221 (1.7)	0 (0.0)	*** (***)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.24 | **Schools' Reports on the Extent to Which Budget Changes Had Served as an Impetus to Change Curriculum and Instructional Practices within the School**

PUBLIC SCHOOLS	Grade 4 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (2.5)	215 (2.7)	53 (3.3)	218 (1.1)	27 (3.4)	219 (2.4)
Northeast	19 (5.9)	213 (5.1)	57 (6.3)	225 (3.0)	24 (7.5)	227 (6.5)
Southeast	26 (3.7)	215 (5.0)	52 (4.6)	209 (2.3)	22 (6.0)	204 (6.0)
Central	12 (4.2)	217 (4.9)	57 (8.4)	223 (2.1)	31 (7.2)	223 (3.5)
West	25 (5.6)	216 (6.1)	46 (6.0)	215 (2.3)	29 (6.6)	220 (2.3)
STATES						
Alabama	30 (4.9)	209 (2.1)	48 (5.3)	207 (2.8)	24 (3.9)	206 (3.9)
Arizona	22 (4.5)	217 (3.1)	63 (5.4)	213 (1.7)	16 (4.0)	216 (5.3)
Arkansas	14 (3.2)	206 (2.6)	48 (4.5)	210 (1.7)	38 (4.1)	208 (1.7)
California	33 (4.6)	202 (3.3)	53 (5.1)	207 (2.5)	14 (3.6)	216 (6.2)
Colorado	20 (4.2)	220 (2.5)	58 (4.7)	219 (1.6)	22 (4.0)	220 (2.6)
Connecticut	19 (4.3)	219 (4.7)	48 (5.0)	228 (2.2)	33 (5.3)	228 (2.5)
Delaware	29 (0.3)	215 (1.5)	33 (0.3)	212 (1.2)	38 (0.3)	219 (1.9)
Dist. Columbia	30 (0.3)	194 (1.3)	54 (0.3)	191 (0.9)	16 (0.2)	188 (1.9)
Florida	38 (5.5)	211 (3.2)	52 (5.7)	213 (2.1)	11 (3.2)	214 (4.0)
Georgia	26 (4.5)	215 (3.3)	53 (5.6)	213 (2.4)	22 (4.5)	218 (3.3)
Hawaii	15 (3.6)	206 (4.1)	61 (4.6)	214 (1.8)	24 (4.1)	214 (3.7)
Idaho	17 (3.6)	215 (2.6)	66 (4.9)	221 (1.1)	16 (3.9)	223 (1.8)
Indiana	17 (3.9)	215 (3.1)	52 (5.5)	221 (1.7)	31 (4.5)	221 (1.9)
Iowa	21 (4.0)	225 (2.4)	63 (4.4)	230 (1.3)	15 (3.4)	232 (2.4)
Kentucky	27 (4.5)	210 (2.3)	54 (5.4)	214 (1.5)	19 (4.3)	216 (2.6)
Louisiana	18 (3.6)	200 (4.5)	56 (4.9)	205 (2.1)	25 (4.6)	202 (3.5)
Maine	29 (5.6)	233 (1.8)	53 (5.8)	229 (1.7)	18 (5.0)	232 (2.9)
Maryland	37 (4.5)	212 (2.7)	48 (5.3)	217 (2.7)	14 (3.4)	226 (4.3)
Massachusetts	36 (4.1)	218 (2.4)	50 (4.7)	231 (1.7)	14 (3.8)	227 (3.5)
Michigan	20 (4.3)	216 (3.9)	59 (5.1)	220 (2.7)	20 (4.1)	216 (4.5)
Minnesota	18 (3.9)	225 (3.6)	68 (5.2)	225 (1.3)	13 (3.5)	233 (2.8)
Mississippi	21 (3.4)	197 (2.2)	60 (4.7)	202 (1.8)	19 (4.4)	202 (3.7)
Missouri	26 (4.4)	218 (3.0)	48 (4.9)	222 (1.8)	26 (4.2)	222 (3.4)
Nebraska	21 (3.9)	227 (3.4)	47 (5.1)	226 (1.7)	32 (5.0)	221 (2.8)
New Hampshire	31 (5.8)	228 (2.4)	49 (5.6)	229 (1.8)	20 (4.5)	231 (2.3)
New Jersey	22 (4.4)	221 (4.4)	57 (4.9)	229 (2.2)	21 (4.6)	223 (3.3)
New Mexico	19 (4.4)	211 (3.3)	66 (5.6)	212 (2.1)	14 (3.6)	210 (2.4)
New York	33 (5.9)	218 (3.4)	50 (5.5)	217 (2.4)	17 (4.1)	215 (4.4)
North Carolina	21 (4.0)	210 (3.4)	65 (4.9)	211 (1.4)	14 (3.8)	215 (3.9)
North Dakota	20 (4.0)	226 (2.2)	55 (5.0)	227 (1.0)	25 (4.4)	229 (1.7)
Ohio	21 (4.4)	216 (3.4)	58 (5.1)	217 (2.1)	21 (3.6)	222 (2.3)
Oklahoma	16 (4.5)	217 (2.5)	66 (5.7)	220 (1.4)	17 (4.3)	220 (2.0)
Pennsylvania	21 (3.8)	221 (3.7)	54 (4.7)	225 (2.3)	25 (4.5)	225 (2.4)
Rhode Island	28 (4.5)	213 (3.2)	53 (5.3)	214 (3.2)	19 (4.6)	217 (4.0)
South Carolina	21 (4.5)	214 (2.9)	60 (5.4)	208 (1.6)	20 (3.9)	217 (2.7)
Tennessee	40 (4.6)	210 (2.4)	40 (4.6)	209 (2.5)	20 (4.0)	211 (3.3)
Texas	12 (4.1)	214 (5.3)	62 (5.7)	217 (1.7)	26 (4.5)	217 (2.6)
Utah	12 (3.5)	234 (1.9)	62 (4.9)	222 (1.4)	26 (4.7)	221 (1.8)
Virginia	20 (4.0)	220 (4.0)	56 (5.3)	216 (1.8)	24 (4.3)	224 (3.4)
West Virginia	21 (3.5)	214 (1.9)	55 (4.2)	213 (1.6)	24 (3.5)	217 (2.1)
Wisconsin	19 (4.4)	225 (2.7)	58 (5.1)	228 (1.7)	23 (3.9)	229 (2.9)
Wyoming	21 (3.5)	225 (1.7)	58 (5.4)	224 (1.2)	21 (4.2)	224 (2.4)
TERRITORY						
Guam	37 (0.3)	197 (1.1)	38 (0.3)	194 (1.8)	25 (0.2)	185 (2.0)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.24 | **Schools' Reports on the Extent to Which Budget Changes Had Served as an Impetus to Change Curriculum and Instructional Practices within the School (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	To a Great Extent		To Some Extent		Not At All	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	20 (3.1)	263 (3.5)	57 (3.6)	264 (1.5)	23 (3.3)	273 (2.7)
Northeast	25 (9.4)	261 (6.3)	56 (9.4)	258 (4.2)	18 (8.7)	284 (5.3)
Southeast	21 (3.9)	248 (6.3)	56 (6.7)	262 (2.4)	23 (6.6)	262 (4.1)
Central	17 (7.0)	274 (4.7)	55 (6.3)	270 (3.8)	28 (6.9)	281 (2.9)
West	17 (5.1)	271 (8.5)	62 (5.8)	266 (3.0)	22 (4.1)	269 (5.7)
STATES						
Alabama	24 (5.1)	251 (2.6)	58 (5.4)	250 (2.7)	18 (3.9)	259 (3.7)
Arizona	18 (4.1)	264 (5.1)	61 (4.8)	267 (1.8)	21 (3.6)	259 (2.5)
Arkansas	15 (3.8)	250 (3.7)	49 (5.2)	256 (1.9)	36 (5.5)	257 (2.6)
California	27 (4.4)	257 (3.7)	59 (4.9)	263 (2.3)	14 (3.3)	261 (5.0)
Colorado	40 (5.7)	272 (1.8)	46 (5.3)	271 (2.2)	14 (4.0)	271 (4.2)
Connecticut	34 (4.9)	274 (3.3)	55 (4.0)	274 (3.0)	12 (3.4)	271 (4.7)
Delaware	25 (0.2)	261 (2.1)	61 (0.2)	261 (1.5)	14 (0.2)	264 (2.2)
Dist. Columbia	33 (0.4)	234 (1.4)	55 (0.5)	223 (1.4)	13 (0.2)	229 (2.8)
Florida	42 (4.7)	259 (2.2)	48 (4.9)	257 (2.5)	11 (3.5)	268 (4.8)
Georgia	11 (3.4)	258 (5.3)	66 (5.5)	258 (1.6)	23 (5.3)	259 (3.5)
Hawaii	13 (0.2)	236 (2.5)	63 (0.3)	261 (1.3)	24 (0.3)	259 (1.3)
Idaho	15 (2.2)	270 (1.8)	64 (4.2)	276 (1.2)	21 (3.6)	273 (1.2)
Indiana	18 (3.5)	259 (3.4)	49 (5.1)	271 (1.7)	33 (4.3)	274 (2.1)
Iowa	26 (4.9)	283 (1.9)	52 (6.0)	285 (1.4)	22 (5.0)	278 (2.4)
Kentucky	23 (4.3)	259 (3.4)	52 (4.9)	262 (1.7)	25 (4.1)	263 (2.3)
Louisiana	18 (3.8)	245 (5.9)	54 (5.2)	250 (2.3)	29 (4.9)	250 (2.9)
Maine	23 (4.4)	274 (2.0)	57 (4.7)	278 (1.3)	20 (3.5)	281 (3.3)
Maryland	30 (5.1)	264 (3.9)	48 (5.7)	265 (2.1)	21 (4.7)	267 (3.9)
Massachusetts	36 (5.2)	268 (3.2)	51 (5.2)	276 (1.6)	13 (3.9)	265 (3.3)
Michigan	22 (4.4)	269 (4.6)	52 (5.5)	283 (2.6)	25 (4.8)	271 (4.7)
Minnesota	34 (5.3)	282 (1.7)	57 (5.6)	280 (1.4)	9 (2.8)	286 (3.2)
Mississippi	24 (4.5)	250 (3.2)	56 (5.3)	245 (2.2)	20 (4.5)	244 (2.8)
Missouri	26 (4.6)	267 (3.6)	56 (5.4)	271 (1.6)	18 (4.1)	273 (2.0)
Nebraska	9 (2.4)	268 (3.5)	60 (5.4)	280 (1.4)	31 (5.3)	276 (2.1)
New Hampshire	22 (4.4)	276 (1.7)	59 (5.2)	279 (1.4)	19 (3.3)	277 (2.0)
New Jersey	23 (4.5)	270 (4.5)	50 (4.7)	270 (2.8)	27 (4.4)	274 (3.9)
New Mexico	29 (3.6)	262 (1.6)	60 (3.8)	258 (1.3)	11 (2.4)	255 (2.6)
New York	34 (5.5)	251 (5.0)	53 (6.2)	274 (2.9)	13 (3.9)	276 (3.2)
North Carolina	16 (3.8)	256 (2.3)	68 (4.6)	258 (1.5)	15 (3.8)	264 (3.3)
North Dakota	14 (3.1)	281 (3.0)	72 (3.6)	282 (1.3)	14 (3.3)	285 (2.7)
Ohio	21 (3.9)	259 (5.7)	56 (5.8)	272 (2.3)	23 (5.2)	267 (4.2)
Oklahoma	11 (2.6)	266 (2.5)	65 (3.7)	269 (1.5)	24 (3.8)	263 (2.4)
Pennsylvania	12 (3.5)	259 (6.5)	49 (5.7)	271 (2.1)	39 (5.2)	275 (2.0)
Rhode Island	36 (0.2)	266 (1.1)	44 (0.2)	263 (1.2)	20 (0.2)	274 (1.8)
South Carolina	20 (3.8)	261 (2.7)	63 (4.6)	259 (1.4)	17 (4.2)	264 (3.0)
Tennessee	29 (5.0)	256 (2.1)	50 (5.2)	259 (2.1)	21 (4.3)	258 (3.9)
Texas	17 (3.2)	263 (3.6)	64 (5.0)	264 (2.2)	19 (4.2)	263 (4.0)
Utah	22 (3.9)	272 (1.8)	53 (5.2)	274 (1.2)	24 (4.7)	275 (1.8)
Virginia	24 (4.8)	261 (3.4)	58 (5.5)	268 (1.7)	18 (4.5)	271 (3.2)
West Virginia	32 (4.6)	258 (1.8)	43 (4.9)	257 (1.4)	24 (4.6)	261 (2.3)
Wisconsin	14 (3.8)	268 (5.3)	56 (5.6)	278 (1.8)	30 (5.8)	280 (3.9)
Wyoming	12 (2.6)	271 (2.6)	50 (3.6)	277 (1.3)	38 (4.0)	273 (1.8)
TERRITORIES						
Guam	27 (0.3)	238 (1.5)	51 (0.4)	237 (2.1)	22 (0.3)	221 (2.1)
Virgin Islands	0 (0.0)	*** (***)	45 (0.2)	215 (1.4)	55 (0.2)	230 (1.4)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

Students' Home Background

TABLE A.25 | **Students' Reports on Parents' Highest Level of Education**

PUBLIC SCHOOLS	Grade 4 - 1992									
	Graduated College		Some Education After High School		Graduated High School		Did Not Finish High School		I Don't Know	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	40 (1.1)	225 (1.2)	7 (0.4)	223 (1.7)	13 (0.6)	212 (1.6)	4 (0.3)	203 (2.7)	36 (0.8)	212 (0.9)
Northeast	44 (3.2)	231 (3.0)	6 (0.6)	229 (4.7)	11 (0.9)	215 (5.2)	4 (0.7)	*** (***)	35 (2.0)	216 (2.4)
Southeast	37 (1.8)	215 (2.2)	7 (0.8)	217 (3.8)	16 (1.1)	203 (3.3)	6 (0.6)	198 (3.9)	34 (1.2)	205 (1.6)
Central	40 (2.3)	229 (2.2)	8 (0.9)	228 (4.1)	13 (1.6)	218 (3.3)	4 (0.6)	*** (***)	35 (2.1)	216 (2.4)
West	38 (1.9)	224 (2.4)	7 (1.0)	218 (2.3)	12 (1.0)	216 (2.4)	4 (0.5)	202 (5.1)	39 (1.3)	212 (1.9)
STATES										
Alabama	35 (1.3)	211 (2.3)	9 (0.7)	216 (2.2)	19 (1.0)	203 (2.0)	8 (0.7)	202 (1.9)	28 (1.1)	203 (2.0)
Arizona	33 (1.1)	220 (1.4)	8 (0.7)	225 (1.8)	11 (0.7)	210 (2.6)	4 (0.4)	202 (3.3)	44 (1.1)	209 (1.4)
Arkansas	32 (1.3)	213 (1.7)	9 (0.7)	215 (1.9)	18 (0.9)	208 (1.5)	7 (0.5)	198 (2.2)	34 (1.2)	206 (1.2)
California	35 (1.5)	216 (2.0)	7 (0.7)	217 (2.9)	8 (0.6)	200 (2.7)	5 (0.5)	189 (4.7)	45 (1.4)	202 (1.7)
Colorado	40 (1.0)	228 (1.3)	9 (0.6)	228 (2.0)	10 (0.6)	212 (2.0)	4 (0.3)	200 (2.6)	37 (1.2)	213 (1.2)
Connecticut	44 (1.2)	235 (1.3)	7 (0.7)	225 (2.8)	10 (0.6)	218 (2.1)	4 (0.4)	205 (2.8)	35 (1.2)	220 (1.7)
Delaware	39 (0.9)	225 (1.8)	7 (0.6)	219 (2.8)	14 (0.9)	213 (1.8)	5 (0.6)	196 (3.3)	35 (0.8)	211 (1.0)
Dist. Columbia	42 (1.0)	196 (1.1)	6 (0.4)	198 (2.7)	14 (0.7)	187 (1.9)	4 (0.4)	186 (3.0)	33 (0.8)	187 (1.1)
Florida	37 (1.5)	219 (2.4)	8 (0.5)	221 (2.3)	13 (0.9)	204 (2.2)	4 (0.5)	199 (2.6)	38 (1.2)	208 (1.5)
Georgia	37 (1.2)	221 (1.8)	7 (0.6)	223 (2.3)	18 (0.8)	205 (1.8)	5 (0.6)	202 (2.5)	32 (1.2)	211 (1.5)
Hawaii	36 (1.3)	218 (2.0)	6 (0.5)	219 (2.7)	14 (0.8)	203 (1.8)	3 (0.4)	199 (4.1)	41 (1.2)	211 (1.4)
Idaho	36 (1.2)	227 (1.3)	9 (0.6)	228 (2.0)	12 (0.8)	215 (1.8)	3 (0.4)	200 (2.9)	39 (1.3)	216 (1.2)
Indiana	34 (1.2)	226 (1.4)	8 (0.6)	230 (2.0)	18 (0.9)	216 (1.5)	6 (0.5)	209 (2.5)	34 (1.1)	214 (1.2)
Iowa	40 (1.3)	236 (1.2)	9 (0.6)	235 (2.0)	13 (0.8)	223 (2.1)	3 (0.4)	211 (2.9)	34 (1.0)	223 (1.3)
Kentucky	27 (1.3)	223 (1.8)	9 (0.7)	222 (2.7)	20 (1.1)	210 (1.5)	10 (0.6)	203 (1.8)	35 (0.9)	210 (1.2)
Louisiana	36 (1.4)	207 (1.8)	8 (0.5)	214 (2.8)	16 (0.8)	198 (2.3)	6 (0.5)	194 (2.7)	34 (1.1)	201 (1.9)
Maine	36 (1.7)	240 (1.5)	9 (0.9)	240 (2.1)	16 (1.1)	225 (1.9)	4 (0.4)	215 (3.4)	35 (1.6)	224 (1.3)
Maryland	41 (1.2)	224 (1.6)	8 (0.6)	226 (2.5)	12 (0.8)	206 (2.8)	4 (0.5)	201 (2.8)	36 (1.1)	210 (1.5)
Massachusetts	46 (1.6)	234 (1.3)	7 (0.8)	230 (2.9)	11 (0.7)	219 (2.0)	2 (0.3)	195 (4.1)	33 (1.4)	217 (1.7)
Michigan	38 (1.7)	227 (2.1)	9 (0.7)	224 (2.1)	14 (0.8)	212 (2.4)	3 (0.4)	201 (5.3)	36 (1.4)	213 (1.9)
Minnesota	38 (1.2)	236 (1.4)	6 (0.5)	230 (2.8)	12 (0.7)	220 (1.7)	2 (0.3)	*** (***)	41 (1.2)	222 (1.1)
Mississippi	35 (1.5)	205 (1.6)	6 (0.5)	209 (2.9)	18 (1.3)	197 (2.4)	8 (0.7)	193 (2.3)	32 (1.3)	197 (1.5)
Missouri	36 (1.3)	228 (1.6)	9 (0.6)	227 (1.8)	15 (0.9)	216 (2.2)	5 (0.7)	210 (2.6)	34 (1.1)	215 (1.4)
Nebraska	39 (1.4)	230 (1.6)	11 (0.7)	230 (2.4)	13 (0.8)	222 (2.3)	3 (0.3)	*** (***)	34 (1.5)	219 (1.4)
New Hampshire	42 (1.5)	236 (1.5)	9 (0.7)	232 (2.5)	13 (0.8)	222 (1.6)	3 (0.5)	211 (4.0)	33 (1.3)	223 (1.4)
New Jersey	47 (1.7)	234 (1.7)	8 (0.6)	230 (2.8)	11 (0.7)	219 (2.1)	3 (0.4)	210 (3.8)	31 (1.3)	217 (2.1)
New Mexico	31 (1.9)	221 (2.1)	9 (0.7)	223 (2.9)	15 (1.0)	207 (2.4)	7 (0.7)	202 (2.3)	38 (1.4)	206 (1.5)
New York	41 (1.4)	227 (1.8)	7 (0.8)	225 (3.1)	11 (1.0)	211 (2.4)	4 (0.5)	210 (3.0)	37 (1.7)	210 (1.4)
North Carolina	38 (1.5)	219 (1.7)	9 (0.7)	220 (2.5)	16 (0.7)	204 (1.9)	6 (0.5)	201 (2.5)	30 (1.3)	206 (1.4)
North Dakota	43 (1.3)	233 (0.9)	7 (0.7)	234 (2.6)	12 (0.8)	224 (1.7)	3 (0.4)	*** (***)	34 (1.4)	221 (1.3)
Ohio	36 (1.4)	227 (1.5)	8 (0.6)	221 (3.0)	17 (0.9)	215 (2.0)	5 (0.5)	205 (2.6)	34 (1.2)	210 (1.4)
Oklahoma	35 (1.3)	225 (1.4)	10 (0.7)	225 (1.8)	16 (0.9)	215 (1.6)	5 (0.5)	209 (2.8)	34 (1.4)	214 (1.1)
Pennsylvania	37 (1.4)	230 (2.0)	9 (0.8)	236 (2.0)	16 (0.9)	220 (1.6)	4 (0.4)	211 (3.3)	34 (1.2)	215 (1.8)
Rhode Island	36 (1.3)	224 (1.9)	8 (0.6)	220 (2.5)	11 (0.7)	207 (2.6)	5 (0.4)	200 (2.7)	40 (1.3)	208 (2.1)
South Carolina	36 (1.2)	220 (1.6)	7 (0.5)	219 (2.5)	17 (1.0)	204 (1.7)	5 (0.5)	204 (2.3)	35 (1.2)	205 (1.5)
Tennessee	34 (1.4)	217 (2.2)	9 (0.6)	213 (2.8)	18 (0.9)	205 (2.0)	8 (0.6)	201 (2.3)	31 (1.0)	205 (1.4)
Texas	33 (1.6)	224 (2.0)	8 (0.6)	225 (2.5)	13 (0.8)	213 (2.7)	7 (0.6)	211 (2.4)	39 (1.4)	212 (1.6)
Utah	40 (1.4)	230 (1.3)	8 (0.6)	228 (2.0)	10 (0.7)	216 (2.3)	3 (0.4)	205 (4.1)	39 (1.1)	217 (1.3)
Virginia	43 (1.4)	230 (1.8)	8 (0.6)	219 (2.4)	14 (0.8)	210 (1.8)	6 (0.5)	203 (2.6)	30 (1.1)	213 (1.8)
West Virginia	30 (1.3)	223 (1.7)	9 (0.5)	222 (2.2)	21 (0.8)	210 (1.3)	8 (0.6)	201 (2.1)	32 (1.0)	209 (1.4)
Wisconsin	35 (1.3)	234 (1.5)	10 (0.6)	237 (2.0)	15 (0.8)	225 (2.0)	3 (0.4)	219 (4.8)	38 (1.1)	221 (1.2)
Wyoming	37 (1.3)	229 (1.4)	11 (0.9)	232 (1.5)	12 (0.7)	221 (2.0)	4 (0.4)	215 (2.8)	35 (1.1)	219 (1.1)
TERRITORY										
Guam	31 (0.9)	191 (1.6)	6 (0.5)	206 (3.4)	13 (0.8)	186 (2.8)	6 (0.6)	183 (3.7)	44 (1.0)	192 (1.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. The percentages for parents' highest level of education may not add to 100 percent because some students responded "I don't know." ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.25 | **Students' Reports on Parents' Highest Level of Education (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992									
	Graduated College		Some Education After High School		Graduated High School		Did Not Finish High School		I Don't Know	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	40 (1.4)	279 (1.4)	18 (0.8)	270 (1.2)	25 (0.8)	256 (1.4)	8 (0.6)	248 (1.8)	9 (0.5)	251 (1.7)
Northeast	38 (3.1)	282 (4.2)	18 (1.1)	267 (3.0)	26 (2.2)	259 (4.2)	8 (0.9)	246 (4.2)	10 (1.2)	250 (3.3)
Southeast	35 (1.9)	270 (1.9)	17 (0.8)	263 (2.0)	28 (1.4)	249 (1.9)	12 (1.6)	246 (4.2)	8 (1.0)	248 (4.3)
Central	42 (2.7)	283 (2.9)	20 (1.4)	273 (1.6)	26 (1.7)	264 (2.3)	4 (0.7)	*** (***)	7 (0.8)	258 (3.8)
West	43 (2.9)	279 (2.6)	18 (1.2)	274 (2.6)	19 (1.5)	252 (2.9)	9 (1.1)	248 (2.4)	11 (0.9)	248 (2.9)
STATES										
Alabama	33 (1.6)	261 (2.5)	18 (0.7)	258 (2.0)	29 (1.1)	244 (1.8)	13 (0.9)	239 (2.0)	7 (0.6)	237 (2.9)
Arizona	36 (1.5)	277 (1.5)	22 (1.0)	270 (1.5)	21 (0.9)	256 (1.6)	10 (0.7)	245 (2.5)	12 (0.8)	248 (2.7)
Arkansas	30 (1.1)	264 (1.9)	20 (0.8)	264 (1.7)	31 (1.1)	248 (1.6)	11 (0.7)	246 (2.4)	8 (0.6)	245 (2.7)
California	39 (1.8)	275 (2.0)	18 (1.0)	266 (2.1)	17 (0.9)	251 (2.1)	10 (0.9)	241 (2.2)	16 (1.1)	240 (2.9)
Colorado	46 (1.2)	282 (1.3)	19 (0.9)	276 (1.6)	21 (0.9)	260 (1.5) >	6 (0.6)	250 (2.4)	7 (0.5)	252 (2.6)
Connecticut	47 (1.3)	288 (1.0) >	16 (0.8)	272 (1.8)	22 (0.9)	260 (1.8)	6 (0.6)	245 (3.3)	9 (0.6)	251 (2.4)
Delaware	39 (1.2)	274 (1.3)	18 (1.0)	268 (2.3)	30 (1.0)	251 (1.7)	6 (0.5)	248 (4.0)	8 (0.9)	248 (3.4)
Dist. Columbia	32 (1.0)	244 (1.7)	17 (0.8)	240 (1.9)	29 (0.8)	224 (1.6)	9 (0.7)	225 (3.2)	12 (0.6)	229 (2.2)
Florida	39 (1.5)	268 (1.9)	19 (0.7)	266 (1.9)	24 (1.1)	251 (1.8)	8 (0.7)	244 (2.7)	10 (0.7)	244 (3.2)
Georgia	35 (1.7)	271 (2.1)	18 (0.7)	264 (1.7)	30 (1.2)	250 (1.3)	11 (0.8)	244 (2.2)	6 (0.6)	245 (2.6)
Hawaii	38 (1.1)	267 (1.5)	15 (0.9) <	266 (1.9)	25 (1.0)	246 (1.8)	6 (0.5)	242 (3.5)	16 (0.8)	246 (2.1) >
Idaho	48 (1.2)	281 (0.9)	20 (0.8)	278 (1.3)	19 (0.9)	268 (1.4) >	7 (0.5)	254 (2.3)	6 (0.5)	254 (2.8)
Indiana	33 (1.5)	283 (1.5)	21 (0.9)	275 (1.9)	32 (1.1)	260 (1.6)	8 (0.6)	250 (2.6)	6 (0.5)	249 (3.3)
Iowa	44 (1.4)	291 (1.2) >	21 (0.8)	285 (1.5)	25 (1.1)	273 (1.3)	4 (0.4)	262 (2.4)	5 (0.4)	266 (2.8)
Kentucky	28 (1.4)	278 (1.6) »	19 (0.8)	267 (1.6)	32 (0.9)	254 (1.6)	15 (0.9)	246 (1.7)	6 (0.4)	242 (2.8)
Louisiana	32 (1.4)	256 (2.5)	20 (0.9)	259 (1.8)	30 (1.3)	242 (1.6)	10 (0.7)	237 (2.4)	7 (0.6)	236 (3.7)
Maine[1]	40 (1.5)	288 (1.4)	22 (1.0)	281 (1.5)	26 (1.1)	267 (1.1)	6 (0.5)	259 (2.7)	5 (0.5)	266 (2.6)
Maryland	44 (1.7)	278 (1.8)	18 (0.9)	266 (1.9)	25 (1.2)	250 (1.8)	6 (0.8)	240 (3.7)	7 (0.5)	245 (3.8)
Massachusetts[1]	48 (1.5)	284 (1.3)	17 (0.8)	272 (1.8)	21 (1.0)	261 (1.4)	7 (0.6)	248 (3.2)	7 (0.6)	248 (2.6)
Michigan	38 (1.6)	277 (2.2)	23 (0.9)	271 (2.0)	26 (0.9)	257 (1.7)	6 (0.5)	249 (2.0)	7 (0.6)	248 (3.0)
Minnesota	48 (1.3) >	290 (1.0) >	21 (0.9)	284 (1.8)	22 (0.9) «	270 (1.8) >	3 (0.4)	256 (4.2)	7 (0.6)	268 (3.0)
Mississippi[1]	36 (1.7)	254 (1.6)	16 (0.7)	256 (2.0)	29 (1.4)	239 (1.6)	13 (0.8)	234 (1.8)	7 (0.6)	231 (2.8)
Missouri[1]	36 (1.3)	280 (1.7)	22 (0.9)	275 (1.5)	29 (1.0)	264 (1.6)	8 (0.7)	254 (2.4)	6 (0.5)	252 (2.9)
Nebraska	46 (1.5)	287 (1.2)	20 (1.0)	280 (1.6)	24 (1.2)	267 (1.7)	4 (0.5)	247 (3.3)	6 (0.6)	256 (3.8)
New Hampshire	46 (1.5)	287 (1.4)	17 (0.8)	280 (1.5)	24 (1.1)	267 (0.9) »	6 (0.5)	259 (2.5)	7 (0.5) >	262 (2.5)
New Jersey	45 (1.6)	283 (1.8)	18 (0.8)	275 (2.1)	23 (1.2)	259 (2.5)	7 (0.6)	253 (3.8)	8 (0.7)	250 (3.9)
New Mexico	34 (1.4)	272 (1.4)	20 (0.7)	264 (1.4)	26 (1.1)	249 (1.4)	11 (0.7)	244 (1.9)	10 (0.6)	245 (2.0) >
New York	44 (1.6)	277 (1.9)	18 (1.1)	271 (2.4)	23 (1.0)	256 (2.5)	6 (0.8)	243 (4.2)	10 (1.0)	240 (3.8)
North Carolina	36 (1.2)	271 (1.4) >	20 (0.8)	265 (1.6) >	27 (0.9) <	246 (1.7)	10 (0.6)	240 (2.3)	6 (0.5)	240 (3.6)
North Dakota	54 (1.2) >	289 (1.1)	18 (0.7)	283 (1.9)	19 (1.3)	271 (1.7)	3 (0.5)	259 (4.5)	5 (0.5)	272 (2.8)
Ohio	37 (1.4)	279 (1.8)	19 (0.7)	272 (1.6)	32 (1.1)	260 (2.3)	7 (0.6)	243 (2.6)	5 (0.5)	249 (4.5)
Oklahoma	39 (1.4)	277 (1.5)	21 (0.9)	272 (1.9)	26 (1.0)	257 (1.7)	8 (0.7)	254 (2.9)	6 (0.5)	251 (4.3)
Pennsylvania	39 (1.8)	282 (1.6)	19 (0.9)	274 (1.9)	30 (1.2)	262 (1.6)	7 (0.8)	252 (2.8)	5 (0.5)	252 (3.8)
Rhode Island	43 (1.1)	276 (1.1)	18 (1.5)	271 (1.5)	22 (1.4)	256 (1.6)	8 (0.4)	244 (2.1)	8 (0.6)	239 (2.5)
South Carolina[1]	37 (1.4)	272 (1.5)	16 (0.7)	268 (1.7)	31 (0.9)	248 (1.4)	9 (0.6)	248 (2.1)	7 (0.3)	247 (3.0)
Tennessee[1]	33 (1.5)	267 (2.1)	21 (0.9)	265 (1.8)	29 (1.0)	251 (1.6)	12 (0.8)	245 (2.0)	5 (0.4)	243 (3.6)
Texas	34 (1.6)	281 (2.1) >	18 (0.8) >	272 (1.6)	21 (1.0)	253 (1.6)	16 (1.0)	247 (1.7)	11 (0.8)	244 (2.4)
Utah[1]	53 (1.3)	280 (1.0)	22 (1.0)	278 (1.2)	15 (0.8)	258 (1.8)	3 (0.3)	254 (3.2)	7 (0.5)	258 (2.7)
Virginia	41 (1.5)	282 (1.5)	18 (0.8)	270 (1.6)	24 (0.9)	252 (1.5)	9 (0.6)	248 (2.1)	8 (0.6)	251 (2.5)
West Virginia	29 (1.1)	270 (1.5)	18 (0.8)	269 (1.4)	33 (1.1) <	251 (1.2)	13 (0.9)	244 (1.8)	7 (0.4)	239 (2.3)
Wisconsin	38 (2.4)	287 (1.8)	24 (0.8)	282 (1.5)	28 (1.8)	270 (1.9)	5 (0.6)	254 (3.4)	6 (0.6)	255 (4.0)
Wyoming	42 (0.9)	281 (0.9)	22 (0.8)	278 (1.7)	23 (0.7)	266 (1.1)	5 (0.6)	258 (3.3)	7 (0.5)	260 (2.2) »
TERRITORIES										
Guam	28 (1.2)	246 (1.9)	13 (0.7)	244 (2.4)	27 (1.1)	229 (1.9)	10 (0.9)	224 (2.5)	22 (1.2)	226 (2.0)
Virgin Islands	23 (1.1)	224 (2.0)	11 (0.8)	232 (2.4)	29 (0.9)	221 (1.9)	14 (0.9)	219 (2.4)	24 (1.0)	217 (1.4)

The percentages for parents' highest level of education may not add to 100 percent because some students responded "I don't know."
[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.26 | **Students' Reports on Number of Parents Living at Home**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Both Parents		Single Parent		Neither Parent	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	76 (0.7)	222 (0.9)	20 (0.7)	206 (1.4)	5 (0.3)	192 (2.5)
Northeast	76 (2.0)	227 (2.5)	19 (1.7)	212 (3.4)	5 (1.0)	*** (***)
Southeast	73 (1.2)	213 (2.0)	21 (1.4)	199 (2.4)	6 (0.7)	186 (4.2)
Central	78 (1.4)	226 (1.9)	18 (1.4)	209 (3.9)	4 (0.4)	*** (***)
West	75 (1.7)	221 (2.0)	20 (1.4)	207 (1.9)	4 (0.5)	192 (4.7)
STATES						
Alabama	73 (1.2)	211 (1.7)	22 (1.0)	199 (1.5)	5 (0.5)	186 (3.5)
Arizona	75 (1.0)	217 (1.2)	20 (0.8)	208 (1.6)	5 (0.5)	198 (4.3)
Arkansas	75 (1.0)	212 (1.0)	20 (0.9)	200 (1.9)	5 (0.5)	197 (3.5)
California	76 (1.1)	211 (1.7)	18 (0.9)	199 (2.1)	6 (0.5)	184 (3.7)
Colorado	79 (1.1)	223 (1.1)	18 (1.0)	212 (1.5)	4 (0.4)	193 (3.0)
Connecticut	78 (1.0)	231 (1.1)	18 (0.9)	211 (1.9)	4 (0.4)	198 (4.0)
Delaware	75 (0.8)	221 (0.9)	21 (0.9)	205 (2.0)	5 (0.5)	198 (3.6)
Dist. Columbia	49 (1.0)	196 (0.8)	42 (0.9)	189 (1.1)	9 (0.5)	178 (2.1)
Florida	73 (1.1)	217 (1.4)	22 (1.0)	203 (2.6)	5 (0.5)	187 (3.1)
Georgia	72 (1.4)	219 (1.3)	23 (1.2)	203 (1.8)	4 (0.5)	195 (3.4)
Hawaii	75 (1.1)	216 (1.4)	17 (1.0)	207 (2.0)	7 (0.6)	194 (2.6)
Idaho	83 (1.0)	223 (1.0)	14 (0.8)	212 (1.9)	3 (0.4)	199 (3.0)
Indiana	78 (0.9)	223 (1.1)	19 (0.9)	211 (1.6)	3 (0.4)	197 (4.0)
Iowa	83 (0.8)	231 (1.1)	14 (0.8)	220 (1.7)	2 (0.3)	203 (3.8)
Kentucky	78 (1.0)	216 (1.1)	18 (0.9)	207 (1.7)	4 (0.4)	196 (4.1)
Louisiana	72 (1.3)	207 (1.3)	23 (1.1)	195 (2.2)	5 (0.5)	179 (3.5)
Maine	81 (1.2)	232 (1.0)	17 (1.2)	226 (1.9)	2 (0.3)	*** (***)
Maryland	72 (1.0)	221 (1.3)	23 (0.9)	205 (2.0)	5 (0.4)	193 (3.3)
Massachusetts	80 (0.9)	229 (1.2)	16 (0.9)	216 (1.8)	4 (0.4)	193 (3.9)
Michigan	75 (1.1)	224 (1.6)	22 (1.0)	205 (2.3)	3 (0.4)	189 (4.8)
Minnesota	81 (0.9)	230 (0.9)	15 (0.7)	221 (1.8)	4 (0.5)	203 (3.8)
Mississippi	70 (1.1)	204 (1.2)	25 (1.1)	194 (1.6)	5 (0.5)	182 (3.1)
Missouri	78 (1.1)	224 (1.3)	19 (0.9)	212 (1.4)	3 (0.4)	198 (5.0)
Nebraska	82 (1.0)	227 (1.2)	15 (0.9)	215 (2.2)	2 (0.3)	*** (***)
New Hampshire	83 (1.0)	230 (1.2)	15 (1.0)	222 (1.9)	2 (0.3)	*** (***)
New Jersey	79 (1.2)	231 (1.4)	18 (1.1)	211 (2.6)	3 (0.5)	203 (3.5)
New Mexico	76 (1.0)	214 (1.5)	20 (0.7)	207 (2.2)	5 (0.5)	191 (3.6)
New York	77 (1.1)	222 (1.2)	19 (0.8)	208 (1.9)	4 (0.6)	190 (3.6)
North Carolina	73 (1.1)	216 (1.1)	23 (1.0)	202 (1.7)	5 (0.4)	189 (3.6)
North Dakota	85 (0.8)	229 (0.9)	12 (0.7)	220 (1.8)	2 (0.3)	*** (***)
Ohio	77 (1.2)	222 (1.1)	20 (1.1)	206 (1.9)	4 (0.4)	196 (3.7)
Oklahoma	77 (1.2)	221 (1.1)	20 (1.0)	215 (1.5)	3 (0.4)	206 (3.2)
Pennsylvania	77 (1.1)	227 (1.4)	19 (0.9)	212 (1.9)	4 (0.6)	197 (3.9)
Rhode Island	77 (1.3)	218 (1.4)	19 (1.1)	205 (2.2)	4 (0.5)	187 (4.8)
South Carolina	72 (1.1)	216 (1.2)	23 (1.0)	201 (1.4)	5 (0.4)	190 (3.0)
Tennessee	72 (1.2)	213 (1.3)	23 (1.2)	201 (2.2)	4 (0.4)	188 (3.5)
Texas	77 (1.2)	220 (1.2)	18 (1.0)	210 (2.1)	5 (0.6)	194 (3.8)
Utah	85 (1.0)	225 (0.9)	13 (0.9)	214 (2.3)	2 (0.3)	190 (4.7)
Virginia	76 (0.9)	224 (1.4)	21 (0.9)	207 (1.5)	3 (0.3)	197 (3.8)
West Virginia	80 (1.0)	216 (1.1)	17 (0.9)	209 (1.6)	4 (0.4)	197 (3.5)
Wisconsin	81 (0.9)	230 (1.0)	16 (0.8)	219 (1.8)	3 (0.3)	205 (5.0)
Wyoming	82 (0.9)	226 (0.9)	16 (0.8)	216 (1.8)	3 (0.4)	208 (3.2)
TERRITORY						
Guam	75 (0.8)	195 (1.1)	16 (0.8)	186 (1.9)	9 (0.6)	167 (2.7)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.26 | **Students' Reports on Number of Parents Living at Home (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Both Parents		Single Parent		Neither Parent	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	75 (0.6)	272 (1.1)	22 (0.7)	259 (1.4)	3 (0.2)	244 (3.2)
Northeast	75 (1.5)	274 (3.1)	22 (1.7)	257 (2.8)	2 (0.4)	*** (***)
Southeast	71 (0.9)	264 (1.5)	25 (1.0)	251 (1.8)	4 (0.5)	*** (***)
Central	79 (1.9)	278 (1.8)	19 (2.0)	264 (3.3)	2 (0.4)	*** (***)
West	75 (1.2)	272 (2.1)	22 (1.1)	264 (3.9)	3 (0.5)	240 (5.3)
STATES						
Alabama	72 (1.2)	258 (1.7)	24 (1.1)	244 (2.2)	3 (0.4)	233 (4.2)
Arizona	76 (1.0)	269 (1.3) >	22 (1.0)	254 (1.5) >	3 (0.3)	241 (4.3)
Arkansas	75 (0.9)	261 (1.2)	21 (0.8)	248 (2.1)	4 (0.4)	241 (3.8)
California	74 (1.0) <	268 (1.7) >	22 (0.9)	259 (2.1)	4 (0.5) »	244 (4.4)
Colorado	77 (1.0)	275 (1.0) »	21 (1.0)	268 (1.7)	2 (0.2)	*** (***)
Connecticut	79 (0.9)	279 (1.2) >	19 (0.9)	263 (1.7)	2 (0.3)	*** (***)
Delaware	73 (1.1)	268 (1.2)	24 (1.1)	255 (1.9)	3 (0.4)	*** (***)
Dist. Columbia	45 (1.3)	242 (1.2) >	47 (1.3)	235 (1.6)	8 (0.8)	230 (4.6)
Florida	71 (1.2)	266 (1.3) >	25 (1.0) >	254 (2.1)	3 (0.4)	238 (3.5)
Georgia	71 (1.1)	265 (1.4)	25 (1.0)	251 (1.6)	3 (0.4)	245 (4.7)
Hawaii	75 (1.0) <	263 (1.0) »	21 (0.9) >	254 (1.8)	4 (0.5)	243 (4.6)
Idaho	83 (0.8)	278 (0.9) »	15 (0.8)	270 (1.4)	2 (0.2)	*** (***)
Indiana	78 (0.9)	274 (1.2)	20 (0.8)	259 (2.0)	2 (0.3)	*** (***)
Iowa	83 (0.8)	285 (1.0) >	16 (0.7)	278 (2.2) >	2 (0.3)	*** (***)
Kentucky	78 (1.0)	266 (1.2) »	20 (0.9)	255 (1.7)	3 (0.3)	245 (5.2)
Louisiana	71 (1.1)	256 (1.8)	25 (1.1)	243 (1.9)	4 (0.4)	233 (4.5)
Maine[1]	81 (0.9)	280 (1.0)	17 (0.7)	275 (1.9)	2 (0.3)	*** (***)
Maryland	73 (1.3)	273 (1.4) >	23 (1.2)	255 (1.8)	3 (0.4)	244 (4.5)
Massachusetts[1]	77 (1.0)	277 (1.1)	21 (0.9)	262 (1.9)	2 (0.3)	*** (***)
Michigan	75 (1.2)	273 (1.5)	23 (1.0)	257 (1.9)	3 (0.3)	250 (4.3)
Minnesota	85 (0.7)	285 (1.0) »	14 (0.7)	275 (2.2) >	1 (0.2)	*** (***)
Mississippi[1]	70 (1.3)	253 (1.3)	27 (1.2)	239 (1.9)	4 (0.4)	234 (4.1)
Missouri[1]	77 (1.0)	276 (1.2)	21 (0.9)	263 (1.8)	3 (0.3)	245 (5.1)
Nebraska	81 (0.9) <	281 (1.2)	17 (0.8) >	267 (1.7)	2 (0.3)	*** (***)
New Hampshire	81 (0.9)	280 (1.1) >	17 (0.8)	273 (1.6)	2 (0.3)	*** (***)
New Jersey	78 (1.4)	278 (1.5)	19 (1.3)	259 (2.2)	3 (0.4)	*** (***)
New Mexico	75 (1.0)	263 (1.1)	22 (0.9)	256 (1.6)	3 (0.3)	240 (4.0)
New York	75 (1.4)	274 (1.5) »	23 (1.2)	255 (3.5)	2 (0.4)	*** (***)
North Carolina	73 (1.1)	263 (1.1) »	24 (1.1)	253 (1.9) »	3 (0.4)	241 (5.0)
North Dakota	85 (0.8)	284 (1.3)	13 (0.7)	277 (1.8)	1 (0.3)	*** (***)
Ohio	74 (1.5) <	273 (1.6) >	23 (1.5)	258 (2.0)	2 (0.3)	*** (***)
Oklahoma	78 (1.1)	271 (1.1) >	20 (1.0)	261 (2.2)	3 (0.4)	*** (***)
Pennsylvania	79 (0.9)	275 (1.4)	19 (0.8)	262 (2.2)	2 (0.3)	*** (***)
Rhode Island	78 (1.4)	270 (0.9) »	20 (1.2)	259 (1.7)	2 (0.4)	*** (***)
South Carolina[1]	73 (1.0)	267 (1.0)	23 (0.9)	251 (1.8)	4 (0.4)	242 (4.5)
Tennessee[1]	73 (1.2)	264 (1.4)	24 (1.1)	248 (2.4)	3 (0.3)	243 (3.9)
Texas	75 (1.0)	271 (1.4) »	22 (0.9) >	258 (2.2)	3 (0.3)	243 (4.7)
Utah[1]	85 (0.8)	277 (0.9)	14 (0.8)	268 (1.8)	1 (0.2)	*** (***)
Virginia	77 (1.3)	272 (1.2)	21 (1.2)	259 (1.9)	3 (0.4)	253 (4.9)
West Virginia	78 (1.0) <	261 (1.1)	19 (1.0) >	255 (1.6)	3 (0.4)	247 (3.9)
Wisconsin	80 (1.1)	280 (1.2)	19 (1.0)	272 (2.7)	1 (0.2)	*** (***)
Wyoming	81 (0.7) «	277 (0.9) >	17 (0.8) >	270 (1.5)	2 (0.3)	*** (***)
TERRITORIES						
Guam	79 (1.5)	245 (1.4) >	16 (1.4)	237 (3.7)	5 (0.7)	*** (***)
Virgin Islands	56 (1.4) «	227 (1.8) >	35 (1.6) >	223 (1.9)	9 (0.9)	214 (4.0)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.27 | **Students' Reports on Extent to Which They Discuss Schoolwork with Someone at Home**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Weekly		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	53 (0.7)	219 (1.0)	21 (0.6)	224 (1.1)	26 (0.6)	210 (1.3)
Northeast	55 (1.8)	225 (2.9)	21 (0.9)	228 (2.9)	24 (1.4)	213 (2.2)
Southeast	53 (1.4)	208 (2.1)	20 (1.3)	217 (2.4)	27 (1.1)	202 (2.5)
Central	53 (1.5)	223 (2.1)	21 (1.5)	229 (2.5)	25 (1.3)	215 (3.4)
West	53 (1.4)	219 (1.7)	20 (1.1)	221 (1.7)	27 (1.0)	210 (2.4)
STATES						
Alabama	54 (1.3)	207 (1.6)	21 (0.8)	212 (2.0)	25 (1.3)	203 (2.3)
Arizona	50 (1.1)	216 (1.3)	22 (1.0)	218 (1.6)	28 (1.1)	207 (1.7)
Arkansas	50 (1.2)	208 (0.9)	22 (0.9)	218 (1.6)	29 (1.0)	202 (1.6)
California	51 (1.2)	210 (2.0)	24 (0.9)	208 (2.1)	25 (1.1)	199 (2.0)
Colorado	55 (1.0)	223 (1.0)	21 (0.8)	224 (1.8)	23 (0.8)	210 (1.4)
Connecticut	55 (1.2)	228 (1.2)	24 (0.9)	229 (1.7)	22 (1.0)	217 (1.8)
Delaware	55 (1.2)	218 (1.2)	22 (0.9)	219 (1.6)	23 (0.9)	211 (1.7)
Dist. Columbia	65 (0.9)	191 (0.8)	20 (0.8)	197 (1.5)	15 (0.8)	184 (1.8)
Florida	56 (1.2)	214 (1.8)	22 (0.7)	216 (1.9)	22 (1.0)	205 (2.1)
Georgia	55 (1.3)	214 (1.3)	23 (1.0)	219 (2.2)	22 (1.0)	209 (1.7)
Hawaii	45 (1.3)	215 (1.6)	25 (1.1)	218 (1.7)	30 (1.1)	206 (1.8)
Idaho	48 (1.2)	222 (1.2)	24 (0.9)	224 (1.4)	28 (1.1)	214 (1.6)
Indiana	55 (1.0)	220 (1.3)	22 (0.9)	225 (1.4)	23 (0.8)	214 (1.7)
Iowa	52 (1.2)	231 (1.1)	25 (0.9)	232 (1.6)	23 (1.0)	221 (1.5)
Kentucky	53 (1.1)	214 (1.3)	22 (0.8)	218 (1.7)	25 (0.9)	208 (1.3)
Louisiana	54 (1.0)	202 (1.4)	22 (0.9)	208 (2.1)	23 (1.0)	200 (2.1)
Maine	46 (1.6)	233 (1.5)	29 (1.0)	233 (1.6)	24 (1.3)	224 (1.2)
Maryland	55 (1.1)	217 (1.5)	22 (0.9)	223 (1.7)	23 (0.9)	208 (2.1)
Massachusetts	56 (1.2)	227 (1.2)	24 (0.8)	228 (1.7)	20 (1.1)	219 (2.2)
Michigan	54 (1.2)	219 (1.7)	23 (1.1)	227 (2.3)	24 (1.3)	211 (2.5)
Minnesota	51 (1.0)	230 (1.1)	25 (0.9)	230 (1.7)	24 (0.9)	221 (1.8)
Mississippi	56 (1.4)	201 (1.3)	20 (1.1)	204 (1.8)	24 (1.1)	196 (1.6)
Missouri	51 (1.4)	223 (1.4)	22 (1.0)	224 (1.7)	27 (1.2)	215 (1.9)
Nebraska	55 (1.3)	227 (1.5)	23 (1.1)	227 (1.7)	22 (1.0)	215 (1.5)
New Hampshire	55 (1.3)	231 (1.3)	24 (1.0)	233 (1.8)	20 (1.0)	219 (1.8)
New Jersey	58 (1.5)	227 (1.8)	23 (1.1)	231 (1.7)	19 (1.2)	217 (2.4)
New Mexico	52 (1.3)	214 (2.1)	21 (0.9)	215 (2.1)	27 (1.4)	205 (1.7)
New York	55 (1.4)	217 (1.6)	23 (1.1)	222 (1.6)	22 (1.0)	212 (2.2)
North Carolina	55 (1.1)	212 (1.4)	21 (0.7)	215 (1.7)	24 (1.0)	207 (1.8)
North Dakota	52 (1.5)	229 (1.1)	25 (1.4)	230 (1.1)	22 (1.2)	221 (1.3)
Ohio	54 (1.4)	220 (1.4)	21 (0.9)	220 (1.6)	25 (1.4)	211 (1.6)
Oklahoma	52 (1.2)	221 (1.2)	21 (0.9)	221 (1.8)	27 (1.1)	214 (1.4)
Pennsylvania	57 (0.9)	224 (1.6)	25 (0.8)	227 (1.7)	18 (0.7)	215 (1.8)
Rhode Island	53 (1.4)	215 (1.8)	24 (1.0)	217 (1.6)	24 (1.3)	209 (2.5)
South Carolina	56 (1.1)	213 (1.4)	21 (0.9)	213 (1.6)	23 (1.1)	204 (1.5)
Tennessee	55 (1.1)	211 (1.5)	21 (0.9)	214 (2.0)	24 (0.9)	202 (1.9)
Texas	51 (1.2)	219 (1.5)	22 (1.0)	219 (1.8)	27 (1.2)	211 (1.5)
Utah	50 (1.0)	224 (1.0)	24 (0.9)	227 (1.4)	26 (1.1)	217 (1.7)
Virginia	57 (1.1)	220 (1.6)	22 (0.8)	226 (1.7)	22 (1.0)	212 (1.7)
West Virginia	54 (1.2)	215 (1.3)	22 (0.8)	218 (1.5)	25 (0.9)	209 (1.5)
Wisconsin	52 (1.2)	228 (1.3)	26 (0.9)	231 (1.6)	22 (1.2)	222 (1.8)
Wyoming	56 (1.2)	226 (1.0)	20 (1.0)	228 (1.5)	24 (1.0)	217 (1.6)
TERRITORY						
Guam	39 (1.2)	191 (1.1)	26 (1.0)	195 (1.6)	35 (1.3)	188 (1.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.27 | **Students' Reports on Extent to Which They Discuss Schoolwork with Someone at Home (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Weekly		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	39 (0.9)	271 (1.5)	28 (0.6)	270 (1.1)	33 (0.7)	259 (1.1)
Northeast	41 (2.0)	274 (4.2)	26 (1.3)	270 (3.0)	32 (1.8)	257 (3.3)
Southeast	37 (1.0)	260 (1.9)	28 (1.0)	263 (1.8)	35 (1.4)	254 (1.4)
Central	39 (2.0)	276 (2.8)	27 (1.4)	278 (2.0)	33 (1.7)	268 (2.0)
West	41 (2.1)	273 (2.4)	28 (1.5)	271 (2.7)	31 (1.3)	258 (2.5)
STATES						
Alabama	37 (1.0)	253 (1.9)	29 (0.9)	255 (2.2)	34 (1.0)	248 (1.8)
Arizona	39 (1.4)	270 (1.5)	27 (1.1)	267 (1.7)	34 (1.1)	259 (1.5)
Arkansas	38 (1.0)	258 (1.5)	26 (0.9)	261 (1.7)	36 (1.0)	251 (1.5)
California	40 (1.1)	268 (1.8)	30 (1.0)	262 (2.2)	30 (0.9)	254 (1.7)
Colorado	46 (1.1)	275 (1.2)	28 (0.9)	275 (1.4)	27 (0.9)	264 (1.6)
Connecticut	39 (1.0)	277 (1.5)	30 (1.0)	276 (1.7)	31 (1.0)	267 (1.5)
Delaware	37 (1.1)	267 (1.5)	30 (1.2)	265 (1.8)	34 (1.1)	257 (1.8)
Dist. Columbia	44 (1.1)	236 (1.6)	29 (1.1)	237 (1.6)	27 (1.1)	232 (2.2)
Florida	39 (1.1)	263 (1.8)	28 (0.9)	261 (1.9)	33 (1.2)	256 (1.7)
Georgia	38 (1.2)	263 (1.5)	30 (1.1)	261 (1.5)	33 (0.9)	254 (1.8)
Hawaii	31 (0.8)	263 (1.5)	29 (0.8)	260 (1.9)	40 (0.9)	253 (1.3)
Idaho	43 (1.0)	277 (1.0)	28 (1.0)	279 (1.2)	29 (1.0)	268 (1.4)
Indiana	40 (1.0)	272 (1.5)	29 (0.9)	273 (1.7)	31 (0.9)	263 (1.5)
Iowa	39 (1.1)	286 (1.3)	29 (0.9)	286 (1.2)	32 (0.9)	276 (1.5)
Kentucky	39 (1.2)	266 (1.6)	29 (0.9)	263 (1.2)	32 (1.0)	256 (1.7)
Louisiana	39 (1.1)	250 (2.0)	29 (1.0)	251 (1.9)	32 (1.2)	249 (1.8)
Maine	41 (1.1)	282 (1.5)	28 (0.9)	279 (1.2)	30 (1.0)	273 (1.4)
Maryland	41 (1.2)	267 (1.8)	29 (1.0)	265 (1.8)	30 (1.2)	263 (1.6)
Massachusetts	43 (1.2)	277 (1.3)	27 (1.0)	276 (1.6)	31 (1.1)	264 (1.6)
Michigan	41 (1.2)	268 (1.8)	28 (1.0)	268 (2.0)	31 (0.9)	267 (1.7)
Minnesota	39 (1.2)	285 (1.4)	31 (1.1)	283 (1.4)	31 (1.1)	278 (1.6)
Mississippi	40 (1.2)	247 (1.6)	30 (1.1)	248 (1.7)	30 (1.2)	244 (1.7)
Missouri	41 (1.1)	274 (1.5)	26 (0.9)	273 (1.6)	33 (1.2)	266 (1.3)
Nebraska	40 (1.3)	280 (1.4)	29 (1.1)	280 (1.5)	31 (1.2)	272 (1.6)
New Hampshire	42 (1.4)	281 (1.4)	30 (0.9)	280 (1.5)	29 (1.0)	271 (1.4)
New Jersey	40 (1.2)	274 (1.7)	31 (1.2)	274 (1.9)	29 (0.9)	267 (2.1)
New Mexico	39 (1.3)	262 (1.4)	27 (0.9)	259 (1.5)	34 (1.0)	256 (1.3)
New York	43 (1.5)	272 (2.2)	28 (1.0)	268 (2.8)	28 (1.2)	259 (2.7)
North Carolina	40 (1.1)	263 (1.5)	30 (0.9)	258 (1.5)	30 (0.9)	253 (1.6)
North Dakota	35 (1.0)	284 (1.4)	30 (0.9)	284 (1.6)	35 (1.1)	280 (1.5)
Ohio	39 (1.1)	271 (1.7)	31 (0.9)	273 (2.2)	30 (1.1)	259 (1.7)
Oklahoma	40 (1.1)	270 (1.5)	27 (1.0)	273 (2.0)	33 (0.9)	261 (1.4)
Pennsylvania	42 (1.4)	274 (1.9)	29 (1.0)	271 (1.9)	29 (1.1)	266 (1.9)
Rhode Island	39 (1.2)	269 (1.3)	27 (1.0)	267 (1.4)	34 (1.1)	262 (1.3)
South Carolina	44 (1.0)	263 (1.3)	28 (0.8)	260 (1.5)	29 (1.0)	257 (1.2)
Tennessee	39 (1.0)	259 (1.5)	32 (1.2)	261 (1.8)	29 (1.0)	255 (2.1)
Texas	41 (1.2)	268 (1.7)	28 (0.9)	267 (1.9)	31 (1.1)	258 (1.6)
Utah	45 (1.1)	276 (1.1)	29 (1.1)	277 (1.3)	27 (1.1)	268 (1.4)
Virginia	43 (0.9)	272 (1.3)	28 (0.9)	269 (1.8)	29 (1.2)	260 (1.5)
West Virginia	38 (1.0)	262 (1.2)	26 (0.9)	263 (1.3)	35 (0.9)	252 (1.4)
Wisconsin	37 (1.3)	281 (2.2)	32 (0.8)	279 (1.5)	32 (1.4)	273 (1.8)
Wyoming	43 (0.8)	278 (1.1)	27 (0.9)	277 (1.1)	30 (0.9)	268 (1.5)
TERRITORIES						
Guam	26 (1.0)	244 (2.3)	30 (0.9)	242 (1.6)	44 (0.9)	236 (1.9)
Virgin Islands	36 (1.7)	223 (2.0)	26 (1.2)	226 (1.9)	38 (1.7)	221 (1.4)

TABLE A.28 | **Students' Reports of Types of Reading Materials in the Home**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Zero to Two Types		Three Types		Four Types	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	31 (1.3)	206 (1.1)	35 (0.7)	218 (1.0)	34 (1.2)	227 (1.2)
Northeast	26 (2.8)	205 (2.5)	36 (1.9)	224 (2.3)	38 (2.5)	234 (3.2)
Southeast	36 (2.4)	200 (2.2)	35 (1.4)	209 (2.3)	29 (2.2)	219 (2.2)
Central	29 (3.2)	211 (3.1)	35 (1.5)	223 (2.6)	36 (2.7)	230 (1.9)
West	33 (2.4)	208 (1.7)	34 (1.1)	218 (1.9)	32 (2.3)	226 (2.5)
STATES						
Alabama	37 (1.2)	199 (1.6)	34 (1.0)	208 (1.9)	29 (1.2)	216 (2.1)
Arizona	38 (1.3)	205 (1.5)	35 (0.8)	217 (1.3)	28 (1.1)	222 (1.4)
Arkansas	37 (1.1)	201 (1.3)	33 (0.9)	210 (1.3)	30 (1.1)	217 (1.1)
California	40 (1.7)	195 (1.9)	32 (1.0)	211 (1.8)	29 (1.5)	221 (2.1)
Colorado	29 (1.2)	209 (1.4)	34 (1.0)	221 (1.3)	37 (1.1)	228 (1.3)
Connecticut	24 (1.2)	210 (2.1)	35 (1.1)	227 (1.4)	41 (1.3)	235 (1.1)
Delaware	31 (1.0)	204 (1.9)	34 (1.0)	217 (1.1)	35 (0.9)	229 (1.4)
Dist. Columbia	39 (0.9)	185 (1.1)	32 (0.9)	192 (1.2)	29 (0.8)	200 (1.2)
Florida	36 (1.6)	202 (1.6)	35 (0.8)	214 (1.6)	29 (1.4)	223 (1.7)
Georgia	33 (1.0)	205 (1.6)	34 (1.0)	214 (1.6)	33 (1.2)	224 (1.6)
Hawaii	42 (1.5)	205 (1.6)	32 (0.9)	216 (1.5)	26 (1.3)	223 (1.7)
Idaho	31 (1.1)	213 (1.5)	34 (1.0)	222 (1.1)	35 (1.2)	227 (1.1)
Indiana	31 (1.4)	211 (1.3)	34 (0.9)	220 (1.1)	35 (1.4)	228 (1.3)
Iowa	24 (1.2)	217 (1.4)	34 (1.0)	230 (1.4)	42 (1.1)	235 (1.1)
Kentucky	39 (1.4)	205 (1.0)	33 (1.1)	217 (1.4)	28 (1.3)	222 (1.6)
Louisiana	39 (1.4)	195 (1.7)	34 (0.8)	205 (1.7)	27 (1.2)	213 (1.9)
Maine	26 (1.5)	221 (1.5)	38 (1.1)	233 (1.3)	36 (1.6)	236 (1.2)
Maryland	31 (1.1)	204 (1.6)	33 (1.0)	217 (1.8)	36 (1.2)	226 (1.5)
Massachusetts	25 (1.2)	214 (1.9)	34 (1.0)	225 (1.6)	41 (1.4)	233 (1.4)
Michigan	31 (1.5)	206 (2.4)	34 (1.0)	222 (1.8)	35 (1.4)	228 (2.0)
Minnesota	23 (1.3)	216 (1.9)	34 (0.9)	229 (1.2)	43 (1.2)	234 (1.1)
Mississippi	40 (1.3)	192 (1.3)	33 (0.9)	202 (1.4)	27 (1.2)	210 (1.9)
Missouri	32 (1.1)	213 (1.5)	34 (1.2)	222 (1.4)	35 (1.3)	228 (1.6)
Nebraska	26 (1.2)	212 (1.5)	34 (1.0)	225 (1.5)	40 (1.5)	232 (1.5)
New Hampshire	21 (1.1)	219 (1.7)	35 (0.8)	228 (1.4)	45 (1.5)	234 (1.6)
New Jersey	24 (1.5)	213 (2.4)	34 (1.1)	226 (1.7)	42 (1.8)	235 (1.7)
New Mexico	41 (1.7)	204 (1.6)	32 (1.5)	213 (1.7)	27 (1.5)	222 (1.7)
New York	32 (1.2)	204 (1.7)	34 (1.1)	219 (1.6)	34 (1.4)	228 (1.5)
North Carolina	33 (1.1)	201 (1.4)	34 (0.9)	212 (1.3)	33 (1.2)	222 (1.5)
North Dakota	22 (1.1)	218 (1.5)	36 (1.2)	228 (1.3)	42 (1.5)	232 (1.0)
Ohio	32 (1.2)	207 (1.6)	36 (1.0)	218 (1.5)	33 (1.2)	228 (1.4)
Oklahoma	35 (1.4)	213 (1.4)	35 (1.0)	220 (1.3)	30 (1.4)	226 (1.4)
Pennsylvania	26 (1.1)	213 (1.5)	35 (0.8)	223 (1.8)	38 (1.3)	230 (1.7)
Rhode Island	32 (1.4)	201 (2.5)	35 (1.0)	217 (1.8)	32 (1.5)	226 (1.5)
South Carolina	35 (1.2)	202 (1.1)	34 (0.9)	213 (1.6)	31 (1.1)	220 (1.3)
Tennessee	37 (1.4)	199 (1.7)	32 (1.0)	211 (1.8)	31 (1.2)	220 (1.3)
Texas	40 (1.6)	208 (1.3)	32 (1.1)	221 (1.7)	28 (1.1)	227 (1.8)
Utah	25 (1.3)	213 (1.8)	37 (1.1)	223 (1.1)	37 (1.6)	230 (1.2)
Virginia	30 (1.3)	209 (1.5)	34 (0.9)	220 (1.5)	36 (1.4)	229 (1.8)
West Virginia	34 (1.3)	207 (1.1)	33 (0.9)	216 (1.4)	33 (1.1)	220 (1.4)
Wisconsin	25 (1.2)	216 (1.7)	36 (0.8)	229 (1.2)	38 (1.1)	234 (1.2)
Wyoming	29 (1.3)	217 (1.5)	37 (1.1)	225 (1.1)	34 (1.3)	230 (1.1)
TERRITORY						
Guam	56 (1.0)	186 (1.2)	28 (1.1)	197 (1.7)	16 (0.9)	200 (1.7)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. Students were asked about four types of reading materials in the home: magazines, daily newspapers, encyclopedias, and 25 or more books.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.28 | **Students' Reports of Types of Reading Materials in the Home (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Zero to Two Types		Three Types		Four Types	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (0.7)	247 (1.2)	31 (0.7)	266 (1.3)	48 (1.0)	275 (1.1)
Northeast	19 (2.3)	246 (3.6)	32 (1.1)	267 (4.0)	49 (2.6)	276 (3.1)
Southeast	23 (1.1)	243 (2.4)	31 (1.1)	257 (1.8)	45 (1.3)	267 (1.5)
Central	16 (1.3)	253 (2.9)	31 (1.7)	270 (3.3)	54 (2.1)	280 (2.2)
West	25 (1.6)	249 (2.3)	31 (1.6)	269 (2.4)	44 (1.8)	276 (2.1)
STATES						
Alabama	24 (1.2)	237 (2.0)	35 (1.2)	249 (2.1)	40 (1.5)<	262 (1.6)
Arizona	29 (1.1)	250 (2.2)	33 (1.0)	266 (1.3)>	38 (1.4)	275 (1.3)
Arkansas	24 (1.0)	243 (1.7)	32 (1.1)	253 (1.6)	44 (1.2)	264 (1.5)
California	33 (1.4)	241 (2.2)	29 (0.9)	262 (2.0)	38 (1.6)	276 (1.8)>
Colorado	17 (0.9)	252 (1.8)	32 (0.9)	270 (1.4)>	51 (1.1)	280 (1.0)»
Connecticut	18 (0.9)>	250 (2.6)	28 (0.9)	269 (1.4)>	54 (1.1)	283 (1.0)>
Delaware	20 (1.0)	248 (1.9)	32 (1.3)	259 (1.8)	49 (1.4)	270 (1.2)
Dist. Columbia	27 (1.1)	226 (2.1)	35 (1.4)	235 (1.7)>	38 (1.3)	240 (1.4)
Florida	27 (1.1)	245 (1.8)	34 (1.1)	258 (1.7)	38 (1.4)	271 (1.6)
Georgia	22 (1.0)	245 (2.2)	32 (0.9)	256 (1.4)	45 (1.2)	267 (1.6)
Hawaii	32 (1.0)	245 (1.5)>	32 (0.8)	258 (1.5)>	36 (1.0)	266 (1.4)>
Idaho	16 (0.8)	259 (1.8)	33 (0.9)	273 (1.1)	51 (1.0)	280 (1.0)
Indiana	18 (0.9)	252 (1.8)	29 (1.0)	268 (1.4)	53 (1.3)	276 (1.2)
Iowa	12 (0.8)	266 (2.2)	28 (0.9)	280 (1.3)>	60 (1.2)	287 (1.0)>
Kentucky	24 (0.9)	247 (1.6)	31 (1.0)	260 (1.4)»	45 (1.1)	270 (1.4)
Louisiana	24 (1.2)	239 (2.4)	34 (0.9)	250 (1.9)>	42 (1.5)	254 (1.9)
Maine[1]	13 (0.7)	266 (1.8)	29 (1.0)	274 (1.4)	58 (1.4)	283 (1.1)
Maryland	16 (0.9)	247 (2.7)	31 (1.0)	259 (1.8)	52 (1.2)	273 (1.4)
Massachusetts[1]	18 (1.1)	250 (2.2)	26 (0.9)	270 (1.5)	56 (1.2)	281 (1.2)
Michigan	19 (0.9)	249 (1.7)	32 (0.9)	262 (1.5)	49 (1.2)	277 (1.6)>
Minnesota	11 (0.8)	268 (2.3)>	29 (1.1)	280 (1.3)>	59 (1.3)	285 (1.2)>
Mississippi[1]	24 (0.9)	234 (1.9)	33 (0.9)	242 (1.7)	43 (1.1)	254 (1.4)
Missouri[1]	17 (1.1)	253 (1.8)	32 (0.9)	268 (1.6)	51 (1.3)	278 (1.3)
Nebraska	12 (0.8)	258 (2.1)	28 (1.2)	274 (1.6)	60 (1.6)	283 (1.1)
New Hampshire	11 (0.7)	264 (2.2)	31 (0.9)>	274 (1.4)	58 (1.0)	282 (1.0)>
New Jersey	18 (1.0)	250 (2.6)	29 (1.0)	268 (1.8)	53 (1.3)	280 (1.6)
New Mexico	27 (0.9)	248 (1.2)	33 (0.9)	258 (1.2)	39 (1.0)	267 (1.4)
New York	20 (1.4)	244 (4.0)	31 (0.9)	261 (2.2)	49 (1.4)	277 (1.5)>
North Carolina	20 (0.8)	239 (1.9)	30 (0.9)	255 (1.8)»	50 (1.0)>	266 (1.3)>
North Dakota	10 (0.6)	272 (2.4)>	26 (1.3)<	280 (1.7)	64 (1.3)	286 (1.3)
Ohio	18 (1.1)	249 (2.6)	31 (1.0)	265 (2.0)	51 (1.3)	276 (1.6)>
Oklahoma	21 (1.1)	255 (2.0)	32 (1.0)	266 (1.7)>	47 (1.4)	274 (1.3)
Pennsylvania	15 (1.0)	252 (2.0)	29 (0.8)	266 (1.9)	56 (1.2)	278 (1.6)
Rhode Island	22 (0.8)	246 (1.9)>	28 (1.1)	262 (1.8)	51 (1.1)	276 (1.0)>
South Carolina[1]	19 (0.9)	243 (1.7)	33 (1.1)	256 (1.3)	49 (1.3)	269 (1.3)
Tennessee[1]	22 (1.0)	242 (1.5)	32 (0.9)	257 (1.9)	46 (1.2)	266 (1.5)
Texas	30 (1.4)	249 (1.7)	33 (0.9)>	264 (1.6)>	38 (1.1)	276 (1.6)>
Utah[1]	14 (0.8)	259 (1.6)	29 (1.0)	273 (1.2)	57 (1.1)	278 (0.9)
Virginia	19 (1.0)	249 (1.8)	31 (0.9)	264 (1.3)	50 (1.2)	276 (1.4)
West Virginia	22 (1.1)	247 (1.4)	31 (0.9)	255 (1.4)	46 (1.3)	266 (1.0)>
Wisconsin	15 (1.1)	259 (3.5)	30 (1.0)	276 (1.6)	55 (1.6)	283 (1.2)
Wyoming	17 (0.9)>	263 (1.8)	34 (0.9)	273 (1.3)	49 (1.2)<	279 (1.0)
TERRITORIES						
Guam	39 (1.1)	226 (1.5)	35 (1.1)	237 (1.7)	26 (1.0)	246 (2.3)
Virgin Islands	25 (0.9)	218 (1.7)	37 (1.2)	218 (1.5)	39 (1.0)	228 (1.6)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

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TABLE A.29 | **Students' Reports on Number of Pages Read Each Day for School and Homework for All Subjects**

PUBLIC SCHOOLS	Grade 4 - 1992					
	More than 10 Pages		Six to 10 Pages		Five or Fewer Pages	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	56 (1.2)	221 (0.9)	22 (0.9)	218 (1.3)	22 (0.9)	207 (1.6)
Northeast	53 (2.9)	227 (2.8)	24 (2.3)	223 (3.6)	23 (2.0)	212 (3.7)
Southeast	50 (2.0)	211 (1.6)	24 (1.4)	211 (2.2)	26 (1.8)	201 (3.7)
Central	62 (3.1)	226 (2.0)	20 (2.4)	223 (2.9)	18 (1.9)	209 (3.3)
West	57 (1.5)	221 (1.7)	20 (1.4)	216 (1.9)	23 (1.6)	209 (2.5)
STATES						
Alabama	56 (1.8)	209 (1.8)	21 (1.2)	210 (2.3)	23 (1.5)	200 (2.1)
Arizona	60 (1.6)	217 (1.2)	19 (1.0)	215 (1.9)	22 (1.2)	206 (1.7)
Arkansas	51 (1.5)	212 (1.3)	22 (1.1)	212 (1.5)	26 (1.1)	200 (1.5)
California	62 (1.6)	211 (1.8)	19 (1.1)	205 (2.1)	19 (1.5)	196 (2.4)
Colorado	67 (1.7)	222 (1.2)	16 (1.0)	219 (1.9)	16 (1.1)	210 (1.6)
Connecticut	64 (1.7)	229 (1.2)	20 (1.1)	227 (2.1)	17 (1.2)	211 (2.3)
Delaware	51 (1.2)	221 (1.3)	22 (1.2)	218 (1.4)	27 (1.1)	207 (1.8)
Dist. Columbia	41 (1.0)	194 (0.9)	23 (0.9)	193 (1.3)	36 (0.9)	187 (1.0)
Florida	56 (1.6)	215 (1.7)	23 (0.8)	214 (2.0)	22 (1.4)	204 (1.9)
Georgia	56 (1.5)	218 (1.7)	23 (1.0)	215 (1.6)	21 (1.0)	203 (1.8)
Hawaii	60 (1.4)	215 (1.4)	19 (1.1)	216 (2.0)	21 (1.0)	203 (1.9)
Idaho	68 (1.3)	223 (0.9)	17 (0.9)	219 (1.7)	15 (0.9)	211 (1.8)
Indiana	63 (1.4)	222 (1.2)	21 (1.0)	221 (1.5)	16 (1.1)	210 (2.0)
Iowa	69 (1.3)	231 (1.1)	18 (1.0)	229 (1.7)	13 (0.9)	217 (2.2)
Kentucky	54 (1.5)	217 (1.3)	23 (1.0)	215 (1.4)	23 (1.2)	204 (1.5)
Louisiana	47 (1.6)	208 (1.6)	23 (1.0)	205 (2.0)	30 (1.5)	195 (1.9)
Maine	60 (1.7)	234 (1.3)	20 (1.3)	231 (1.5)	20 (1.4)	222 (1.9)
Maryland	51 (1.7)	219 (1.4)	23 (1.0)	220 (2.1)	26 (1.3)	207 (1.8)
Massachusetts	65 (2.0)	228 (1.2)	19 (1.2)	226 (1.9)	16 (1.3)	215 (2.6)
Michigan	58 (1.8)	223 (1.8)	21 (1.1)	217 (2.3)	21 (1.4)	207 (2.7)
Minnesota	64 (1.6)	230 (1.0)	18 (0.9)	227 (1.7)	18 (1.1)	218 (1.9)
Mississippi	49 (1.7)	202 (1.4)	24 (1.0)	204 (1.5)	28 (1.4)	194 (1.9)
Missouri	61 (1.5)	224 (1.3)	20 (0.9)	221 (1.8)	19 (1.3)	211 (2.0)
Nebraska	67 (1.7)	228 (1.4)	17 (1.1)	224 (2.1)	16 (1.1)	210 (1.8)
New Hampshire	63 (1.6)	231 (1.1)	20 (1.1)	230 (1.7)	17 (1.1)	218 (2.1)
New Jersey	56 (2.2)	229 (1.8)	23 (1.4)	228 (1.9)	21 (1.5)	217 (1.9)
New Mexico	58 (1.6)	214 (1.6)	21 (1.1)	214 (2.1)	21 (1.1)	204 (1.8)
New York	58 (1.9)	222 (1.5)	21 (1.4)	216 (1.8)	21 (1.4)	205 (2.2)
North Carolina	61 (1.7)	215 (1.2)	18 (1.0)	212 (1.9)	21 (1.2)	201 (1.9)
North Dakota	68 (1.9)	229 (1.0)	18 (1.2)	230 (1.3)	14 (1.3)	218 (1.6)
Ohio	57 (1.6)	222 (1.4)	21 (1.1)	217 (1.8)	22 (1.3)	208 (2.0)
Oklahoma	61 (1.5)	221 (0.9)	20 (1.0)	220 (1.8)	18 (1.0)	213 (2.0)
Pennsylvania	54 (1.8)	227 (1.8)	25 (1.3)	223 (1.6)	21 (1.0)	215 (2.1)
Rhode Island	59 (1.6)	217 (1.7)	20 (1.0)	216 (2.4)	21 (1.5)	204 (2.2)
South Carolina	55 (1.5)	212 (1.5)	20 (0.8)	217 (1.6)	25 (1.4)	205 (1.7)
Tennessee	51 (1.5)	212 (1.6)	26 (1.1)	212 (1.8)	23 (1.2)	200 (1.8)
Texas	57 (1.6)	220 (1.5)	22 (1.0)	217 (1.7)	21 (1.3)	209 (2.2)
Utah	70 (1.6)	225 (0.9)	15 (1.2)	223 (2.1)	15 (1.1)	212 (2.5)
Virginia	64 (1.5)	223 (1.6)	19 (1.0)	219 (1.8)	17 (1.1)	206 (2.0)
West Virginia	60 (1.5)	216 (1.1)	22 (1.0)	215 (1.6)	17 (1.0)	205 (1.9)
Wisconsin	65 (1.5)	229 (1.1)	19 (1.0)	228 (1.6)	16 (1.1)	221 (2.0)
Wyoming	64 (1.7)	226 (1.1)	18 (1.0)	225 (1.9)	18 (1.3)	216 (1.5)
TERRITORY						
Guam	43 (1.1)	193 (1.3)	26 (1.0)	194 (1.7)	31 (0.9)	186 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.29 | **Students' Reports on Number of Pages Read Each Day for School and Homework for All Subjects (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	More than 10 Pages		Six to 10 Pages		Five or Fewer Pages	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	38 (1.0)	270 (1.3)	29 (0.8)	269 (1.4)	32 (1.0)	259 (1.1)
Northeast	35 (1.9)	271 (3.9)	29 (1.7)	275 (3.4)	37 (2.0)	258 (3.4)
Southeast	37 (1.5)	263 (1.7)	26 (1.7)	259 (2.6)	37 (2.2)	253 (2.0)
Central	38 (2.5)	276 (1.9)	34 (2.2)	275 (3.1)	28 (2.0)	268 (3.1)
West	42 (2.3)	271 (3.3)	29 (1.2)	268 (2.9)	30 (1.9)	261 (1.5)
STATES						
Alabama	33 (1.1)	256 (2.1)	32 (1.1)	253 (1.8)	34 (1.3)	246 (2.0)
Arizona	40 (1.5)	268 (1.4) >	28 (0.9)	264 (1.8)	32 (1.1)	261 (1.5)
Arkansas	34 (1.1) »	259 (1.5)	31 (1.2)	257 (1.6)	35 (1.4) «	251 (1.4)
California	42 (1.7)	268 (2.3)	28 (1.0)	259 (1.9)	29 (1.6)	252 (1.8)
Colorado	43 (1.5) >	276 (1.5)	27 (0.9)	272 (1.4)	29 (1.2) <	266 (1.5) >
Connecticut	49 (1.3) »	279 (1.4)	28 (1.1)	272 (1.8)	23 (0.9) <	262 (1.8)
Delaware	32 (1.0)	269 (1.6)	30 (1.1)	265 (1.7)	38 (1.3)	255 (1.7)
Dist. Columbia	26 (1.0)	244 (2.0)	29 (1.2)	240 (1.7)	45 (1.3) <	226 (1.7)
Florida	36 (1.1) >	263 (2.1)	31 (1.1)	261 (1.9)	33 (1.1) «	254 (1.7)
Georgia	38 (1.2)	264 (1.7)	30 (0.9)	261 (1.3)	32 (1.2)	251 (1.4)
Hawaii	40 (0.9) >	260 (1.2) >	27 (0.9)	258 (1.3)	33 (0.9) <	252 (1.7)
Idaho	48 (1.3)	276 (0.9)	27 (0.9)	275 (1.4)	26 (1.0)	271 (1.5)
Indiana	35 (1.2)	275 (1.6)	33 (0.9)	271 (1.4)	32 (1.0)	262 (1.6)
Iowa	47 (1.5)	285 (1.2) >	29 (0.9)	283 (1.4)	24 (1.0)	279 (1.9)
Kentucky	37 (1.3)	267 (1.7)	33 (1.0)	261 (1.4)	30 (1.1)	256 (1.5)
Louisiana	35 (1.2)	255 (1.9)	32 (0.9)	249 (1.6)	33 (1.4)	243 (2.4)
Maine[1]	59 (2.2)	282 (1.0)	22 (1.2)	278 (1.6)	19 (1.3)	268 (1.9)
Maryland	39 (1.7) >	273 (1.7)	28 (1.1)	265 (2.1)	33 (1.4) <	254 (1.7)
Massachusetts[1]	48 (1.6)	279 (1.2)	26 (1.1)	273 (1.7)	26 (1.1)	260 (1.7)
Michigan	36 (1.1) >	272 (1.7)	30 (0.9)	268 (1.6)	34 (1.1) <	260 (1.9)
Minnesota	37 (1.7)	284 (1.4) >	31 (1.1)	283 (1.1) >	32 (1.4)	278 (1.4) >
Mississippi[1]	29 (1.4)	250 (2.0)	30 (1.1)	249 (1.7)	42 (1.4)	241 (1.4)
Missouri[1]	35 (1.0)	273 (1.5)	33 (1.0)	273 (1.6)	32 (1.2)	265 (1.5)
Nebraska	45 (1.8)	280 (1.6)	30 (1.2)	278 (1.3)	25 (1.5)	270 (1.8)
New Hampshire	43 (2.0)	282 (1.3)	29 (1.2)	276 (1.3)	27 (1.4)	273 (1.7) >
New Jersey	44 (1.9)	280 (1.5)	31 (1.4)	269 (2.0)	25 (1.3) «	260 (2.3)
New Mexico	38 (1.1)	261 (1.4)	31 (1.0)	260 (1.4)	31 (1.1)	256 (1.5)
New York	37 (1.8)	274 (2.6)	29 (1.4)	269 (2.4) >	34 (1.4)	256 (2.5)
North Carolina	38 (1.4)	263 (1.8) >	31 (0.9) >	259 (1.4) >	30 (1.2) <	249 (1.6) >
North Dakota	41 (1.4)	285 (1.4)	33 (1.0)	282 (1.5)	26 (1.4)	279 (1.8)
Ohio	41 (1.4) >	273 (1.7)	31 (1.0)	269 (1.9)	28 (1.3)	258 (1.7)
Oklahoma	41 (1.2) >	268 (1.6)	30 (1.1)	269 (1.6)	28 (1.2) <	265 (1.6) >
Pennsylvania	34 (1.5)	274 (2.1)	33 (1.0)	273 (1.7)	33 (1.1)	265 (1.8)
Rhode Island	41 (1.0)	271 (1.1)	30 (1.1)	264 (1.4)	29 (1.1) <	258 (1.3) »
South Carolina[1]	37 (1.2)	263 (1.4)	31 (1.1)	260 (1.5)	32 (1.1)	256 (1.5)
Tennessee[1]	36 (1.1)	266 (1.8)	34 (1.3)	258 (1.7)	29 (1.3)	249 (1.8)
Texas	40 (1.5) >	266 (1.8)	28 (1.0)	266 (1.9)	32 (1.4)	261 (1.8) >
Utah[1]	54 (1.5)	277 (1.0)	24 (1.1)	273 (1.5)	22 (1.1)	269 (1.3)
Virginia	36 (1.4)	275 (1.7)	30 (1.1)	267 (1.5)	34 (1.2)	259 (1.5)
West Virginia	38 (1.1)	262 (1.4)	32 (1.0)	260 (1.4)	30 (1.1) <	253 (1.3)
Wisconsin	42 (2.5)	280 (2.1)	31 (1.3)	279 (1.9)	27 (1.6)	271 (1.8)
Wyoming	42 (1.4)	276 (1.2)	27 (1.1)	274 (1.2)	30 (1.1)	272 (1.3)
TERRITORIES						
Guam	32 (1.4)	244 (1.7) >	30 (1.1)	242 (2.3)	38 (1.6)	226 (1.6)
Virgin Islands	27 (1.3)	224 (1.7)	29 (1.2)	228 (1.6)	44 (1.6) <	218 (1.6)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.30 | **Students' Reports on Amount of Time Spent Watching Television Each Day**

PUBLIC SCHOOLS	Grade 4 - 1992									
	Six Hours or More		Four to Five Hours		Three Hours		Two Hours		One Hour or Less	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	22 (0.8)	203 (1.2)	22 (0.8)	219 (1.3)	17 (0.6)	223 (1.4)	19 (0.7)	224 (1.5)	21 (0.8)	220 (1.6)
Northeast	23 (2.6)	204 (3.3)	22 (2.5)	223 (2.5)	17 (1.8)	230 (4.0)	19 (1.3)	230 (3.6)	20 (1.9)	229 (3.3)
Southeast	28 (1.8)	196 (1.8)	18 (1.2)	210 (2.4)	17 (1.4)	217 (1.5)	17 (0.7)	215 (3.8)	19 (1.7)	212 (3.6)
Central	20 (1.3)	208 (3.4)	25 (1.4)	225 (2.4)	19 (0.8)	227 (3.8)	19 (2.0)	229 (2.9)	18 (1.2)	221 (4.0)
West	20 (1.5)	204 (2.0)	22 (1.5)	218 (2.7)	14 (0.8)	219 (2.1)	19 (1.3)	223 (2.3)	26 (1.5)	220 (2.4)
STATES										
Alabama	25 (1.6)	199 (1.9)	24 (1.1)	211 (1.9)	16 (0.9)	213 (2.3)	16 (0.9)	211 (2.9)	18 (0.9)	203 (2.2)
Arizona	18 (1.0)	206 (2.0)	21 (0.9)	217 (1.7)	18 (0.8)	220 (1.6)	20 (0.8)	217 (1.7)	24 (1.0)	209 (2.1)
Arkansas	29 (1.4)	200 (1.6)	22 (0.7)	215 (1.4)	15 (0.7)	217 (1.9)	16 (0.8)	215 (1.8)	18 (1.0)	203 (1.8)
California	20 (1.2)	196 (2.2)	20 (0.9)	208 (2.1)	16 (0.8)	215 (2.2)	20 (0.9)	212 (2.5)	23 (1.0)	206 (2.8)
Colorado	15 (1.0)	207 (1.8)	20 (0.7)	218 (1.5)	17 (0.8)	222 (1.7)	21 (0.7)	227 (1.5)	27 (0.9)	221 (1.3)
Connecticut	17 (1.1)	207 (2.0)	22 (0.9)	228 (1.5)	18 (0.8)	229 (1.5)	21 (0.9)	233 (1.5)	22 (1.0)	230 (2.0)
Delaware	26 (1.2)	202 (1.0)	21 (1.1)	218 (2.1)	18 (1.0)	225 (2.0)	17 (0.8)	226 (2.0)	19 (0.9)	219 (2.2)
Dist. Columbia	37 (1.0)	185 (1.1)	20 (0.8)	194 (1.6)	13 (0.6)	197 (1.9)	13 (0.7)	197 (1.9)	16 (0.8)	193 (1.7)
Florida	26 (1.5)	201 (2.1)	21 (0.8)	215 (2.3)	15 (0.6)	219 (1.8)	17 (0.9)	221 (2.1)	21 (1.2)	212 (2.2)
Georgia	24 (1.1)	201 (1.6)	22 (1.1)	218 (2.1)	16 (0.8)	221 (1.6)	17 (0.8)	222 (2.0)	21 (1.2)	215 (2.2)
Hawaii	23 (1.0)	203 (1.8)	18 (0.8)	216 (1.9)	15 (0.7)	219 (1.9)	17 (0.9)	218 (1.7)	27 (1.2)	212 (2.5)
Idaho	14 (0.9)	210 (2.1)	21 (0.9)	222 (1.3)	18 (0.8)	224 (1.5)	22 (0.8)	224 (1.4)	26 (1.0)	219 (1.4)
Indiana	20 (1.2)	209 (1.8)	23 (0.9)	221 (1.4)	18 (0.8)	225 (1.4)	20 (0.9)	225 (1.5)	18 (1.0)	219 (2.0)
Iowa	15 (1.1)	214 (2.3)	24 (0.9)	231 (1.3)	20 (0.8)	234 (1.4)	23 (0.9)	233 (1.3)	18 (0.9)	229 (1.8)
Kentucky	24 (1.1)	208 (1.6)	23 (1.0)	217 (1.5)	18 (0.9)	218 (1.8)	18 (0.9)	217 (1.7)	17 (0.9)	209 (1.9)
Louisiana	28 (1.3)	193 (2.0)	21 (1.0)	207 (2.2)	17 (0.8)	208 (2.1)	15 (0.7)	209 (1.9)	18 (0.9)	204 (2.0)
Maine	14 (1.2)	216 (1.7)	21 (1.1)	230 (1.6)	20 (1.0)	233 (1.7)	23 (1.0)	237 (2.0)	22 (1.1)	233 (1.7)
Maryland	25 (1.2)	201 (2.0)	23 (0.9)	218 (1.6)	16 (0.6)	224 (2.2)	18 (0.7)	224 (1.9)	18 (0.7)	220 (1.9)
Massachusetts	14 (1.1)	209 (2.2)	22 (0.9)	225 (2.1)	18 (0.8)	231 (1.8)	22 (0.8)	231 (1.7)	24 (1.4)	227 (2.1)
Michigan	22 (1.3)	201 (2.5)	22 (0.9)	221 (2.0)	17 (0.8)	225 (2.0)	20 (1.1)	227 (2.1)	19 (0.9)	220 (2.8)
Minnesota	14 (0.9)	213 (2.4)	21 (0.9)	229 (1.5)	19 (0.7)	232 (1.7)	23 (1.1)	233 (1.3)	23 (1.1)	226 (1.6)
Mississippi	31 (1.6)	194 (1.5)	19 (1.0)	205 (1.7)	15 (0.7)	207 (1.7)	16 (0.9)	205 (1.9)	19 (1.0)	196 (2.1)
Missouri	21 (1.2)	208 (2.1)	23 (0.9)	223 (1.4)	19 (0.8)	227 (1.7)	18 (0.9)	228 (1.7)	19 (1.0)	220 (2.0)
Nebraska	14 (0.8)	210 (2.0)	23 (1.0)	227 (1.8)	20 (0.9)	231 (1.9)	23 (0.9)	227 (2.1)	20 (0.9)	221 (1.9)
New Hampshire	13 (1.1)	215 (1.7)	21 (1.0)	227 (1.5)	19 (0.8)	229 (1.7)	22 (1.1)	233 (1.7)	25 (1.2)	233 (1.7)
New Jersey	20 (1.3)	210 (2.2)	22 (1.2)	227 (1.6)	18 (0.9)	230 (2.1)	20 (1.0)	234 (1.9)	20 (1.2)	230 (2.6)
New Mexico	20 (1.1)	201 (2.2)	20 (1.0)	217 (1.6)	16 (0.9)	217 (2.2)	20 (0.8)	215 (2.9)	24 (1.0)	210 (2.0)
New York	24 (1.6)	201 (2.4)	26 (0.9)	220 (1.5)	18 (0.9)	224 (1.9)	16 (0.9)	226 (2.1)	16 (1.0)	219 (2.6)
North Carolina	26 (1.3)	201 (1.6)	22 (0.9)	216 (1.4)	15 (0.7)	218 (1.9)	17 (0.8)	219 (2.0)	20 (1.0)	209 (2.1)
North Dakota	11 (1.3)	214 (2.1)	22 (1.2)	228 (1.1)	19 (0.9)	232 (1.3)	25 (0.9)	232 (1.2)	23 (1.2)	225 (1.7)
Ohio	21 (1.3)	208 (1.8)	22 (0.9)	220 (1.4)	19 (0.9)	223 (2.0)	19 (0.7)	222 (2.1)	19 (1.0)	216 (2.0)
Oklahoma	17 (1.1)	210 (1.8)	23 (1.0)	221 (1.4)	18 (0.8)	222 (1.6)	21 (0.9)	224 (1.6)	21 (1.0)	217 (1.4)
Pennsylvania	18 (1.3)	206 (1.8)	21 (0.9)	226 (2.0)	20 (1.0)	227 (1.8)	22 (1.0)	230 (1.5)	19 (1.0)	225 (2.4)
Rhode Island	19 (1.3)	201 (2.8)	22 (1.1)	217 (1.6)	18 (0.9)	219 (2.5)	20 (0.7)	219 (1.8)	20 (1.0)	214 (2.4)
South Carolina	28 (1.3)	200 (1.5)	22 (0.8)	214 (1.4)	15 (0.9)	216 (1.9)	17 (0.8)	218 (1.7)	19 (1.0)	214 (2.3)
Tennessee	22 (1.2)	195 (1.9)	22 (0.8)	214 (1.5)	19 (0.8)	214 (2.0)	19 (0.8)	214 (1.8)	19 (1.0)	212 (2.0)
Texas	21 (1.2)	205 (1.5)	24 (1.0)	222 (1.4)	17 (0.8)	223 (2.2)	18 (0.9)	224 (2.0)	20 (0.8)	213 (2.0)
Utah	10 (0.9)	211 (2.3)	18 (0.8)	224 (1.6)	16 (0.7)	225 (1.4)	25 (0.8)	226 (1.4)	32 (1.0)	223 (1.5)
Virginia	24 (1.4)	206 (1.4)	22 (1.0)	221 (1.5)	16 (0.7)	225 (2.6)	19 (0.9)	229 (2.4)	19 (0.9)	223 (2.1)
West Virginia	23 (1.2)	206 (1.7)	22 (0.8)	218 (1.4)	19 (0.9)	219 (1.5)	19 (1.0)	217 (1.9)	16 (0.9)	210 (2.0)
Wisconsin	14 (0.8)	214 (1.9)	22 (1.0)	228 (1.6)	20 (0.7)	231 (1.7)	23 (0.9)	233 (1.4)	20 (1.1)	227 (1.5)
Wyoming	13 (0.9)	216 (2.0)	17 (0.8)	226 (1.3)	19 (0.8)	228 (1.4)	23 (0.9)	227 (1.3)	27 (1.0)	222 (1.5)
TERRITORY										
Guam	21 (0.9)	184 (1.8)	15 (0.7)	198 (2.5)	13 (0.8)	201 (2.3)	17 (1.0)	196 (1.9)	34 (1.1)	186 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.30 | **Students' Reports on Amount of Time Spent Watching Television Each Day (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992									
	Six Hours or More		Four to Five Hours		Three Hours		Two Hours		One Hour or Less	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	13 (0.4)	243 (1.5)	26 (0.7)	260 (1.1)	22 (0.6)	270 (1.2)	23 (0.6)	276 (1.6)	15 (0.6)	276 (2.2)
Northeast	14 (0.8)	241 (3.4)	28 (1.6)	260 (3.2)	21 (1.6)	276 (3.3)	22 (1.4)	276 (4.2)	15 (1.1)	278 (6.5)
Southeast	17 (1.2)	239 (2.8)	30 (0.9)	256 (1.1)	22 (1.2)	263 (2.6)	19 (1.0)	268 (2.7)	12 (0.9)	267 (2.9)
Central	11 (0.9)	249 (2.9)	24 (1.4)	269 (2.7)	24 (1.2)	274 (2.5)	26 (1.4)	283 (3.0)	15 (0.9)	279 (3.7)
West	12 (0.9)	243 (3.7)	23 (1.2)	258 (1.9)	22 (1.0)	269 (1.7)	25 (1.4)	276 (2.9)	18 (1.4)	277 (4.1)
STATES										
Alabama	20 (1.0)	236 (2.0)	31 (0.9)	250 (2.0)	22 (1.0)	256 (2.1)	17 (0.9)	262 (2.2)	10 (0.7)	255 (2.9)
Arizona	9 (0.8)<	249 (2.1)	27 (0.9)	261 (1.5)	22 (0.7)	266 (1.9)	24 (1.0)	270 (1.9)	17 (0.9)	270 (2.0)
Arkansas	20 (1.0)	237 (1.7)<	31 (1.0)	255 (1.6)	21 (0.9)	261 (1.8)	18 (0.9)	264 (1.7)	10 (0.7)	265 (2.4)
California	10 (0.8)	237 (3.2)	24 (1.0)	255 (1.9)	23 (0.9)	260 (2.2)	27 (1.0)	266 (2.2)	17 (1.1)	273 (3.2)
Colorado	7 (0.6)	252 (2.7)	22 (0.9)	266 (1.4)	24 (0.9)	270 (1.4)	27 (1.0)	278 (1.5)	21 (1.0)>	279 (1.9)
Connecticut	11 (1.0)	244 (2.5)	22 (0.9)<	266 (1.7)	25 (0.9)	275 (1.5)	27 (0.9)>	282 (1.4)	16 (0.9)	285 (2.0)
Delaware	17 (1.1)	245 (2.0)	28 (1.2)	261 (1.8)	24 (1.1)	265 (1.9)	20 (0.8)	271 (2.5)	11 (0.8)	272 (3.1)
Dist. Columbia	31 (1.4)	229 (1.4)	33 (1.0)	236 (1.4)	17 (0.9)	235 (2.4)	12 (0.8)	240 (2.8)	7 (0.6)	238 (3.1)
Florida	15 (1.1)<	241 (2.2)	27 (1.1)	256 (1.9)	22 (0.9)	263 (1.8)	22 (0.9)>	266 (2.1)	13 (0.9)	269 (2.7)>
Georgia	18 (0.9)	244 (1.7)	29 (0.8)	256 (1.3)	22 (0.7)	262 (2.0)	19 (0.8)	268 (2.1)	12 (0.7)	266 (2.7)
Hawaii	22 (0.8)	245 (1.5)	28 (1.0)	261 (1.6)»	21 (0.8)	258 (1.7)	17 (0.9)	264 (2.0)	11 (0.5)	259 (3.0)
Idaho	7 (0.7)	256 (2.3)	20 (0.8)<	268 (1.3)	25 (0.8)	274 (1.5)	27 (0.9)	278 (1.3)	20 (0.9)	282 (1.8)
Indiana	9 (0.7)	250 (2.7)	26 (0.9)	263 (1.5)	23 (0.8)	271 (1.8)	26 (0.8)	275 (1.5)	15 (1.0)	280 (2.2)
Iowa	7 (0.6)	265 (2.1)	24 (1.0)	278 (1.5)	26 (0.9)	284 (1.4)»	28 (1.0)	288 (1.3)	16 (0.9)	287 (2.0)
Kentucky	13 (0.8)	245 (1.8)	28 (1.0)	256 (1.5)	26 (0.8)	265 (1.7)	22 (0.8)	270 (1.6)>	12 (0.7)	270 (2.6)
Louisiana	20 (1.0)	236 (2.1)	32 (1.2)	249 (1.9)	21 (0.8)	254 (2.1)	18 (0.7)	256 (2.3)	10 (0.6)	251 (3.7)
Maine[1]	8 (0.6)	263 (2.8)	21 (1.0)	273 (1.4)	24 (1.0)	277 (1.3)	28 (1.0)	284 (1.6)	18 (0.9)	283 (1.9)
Maryland	17 (0.9)	242 (1.8)	26 (1.1)	260 (1.4)	24 (0.9)>	267 (2.3)	21 (0.8)	276 (2.1)	11 (0.7)	280 (2.7)
Massachusetts[1]	8 (0.7)	246 (2.6)	22 (0.9)	263 (1.4)	25 (0.9)	274 (1.8)	27 (1.0)	279 (1.6)	18 (1.0)	283 (1.9)
Michigan	13 (0.7)	240 (2.1)	25 (1.0)	262 (1.7)	24 (0.9)	270 (1.5)	25 (1.1)>	277 (2.2)	12 (0.8)	278 (2.8)
Minnesota	5 (0.6)	262 (3.8)	20 (0.8)«	275 (1.5)	27 (1.1)	280 (1.7)	31 (1.3)>	288 (1.5)»	18 (0.8)>	288 (1.5)>
Mississippi[1]	21 (1.0)	230 (2.0)	29 (1.0)	246 (1.4)	22 (0.8)	253 (1.8)	18 (0.8)	254 (2.2)	10 (0.5)	244 (2.9)
Missouri[1]	12 (0.7)	255 (3.2)	28 (1.0)	266 (1.3)	24 (0.9)	272 (1.5)	25 (0.9)	277 (1.5)	12 (0.7)	280 (2.6)
Nebraska	8 (0.6)	255 (3.2)	25 (1.2)	275 (1.6)	25 (0.8)	277 (1.3)	28 (1.2)	283 (1.8)	14 (1.0)	282 (2.4)
New Hampshire	7 (0.5)	261 (3.1)	22 (0.9)	272 (1.6)	23 (0.9)	276 (1.5)	29 (0.9)	282 (1.4)	20 (1.1)	284 (2.0)
New Jersey	13 (1.1)	246 (3.1)	26 (0.9)	268 (1.9)	22 (1.1)	274 (2.0)	24 (1.0)	279 (1.7)	15 (1.1)	283 (2.2)
New Mexico	11 (0.7)	246 (2.3)	26 (0.8)	256 (1.3)	22 (0.8)	259 (1.5)	24 (0.9)	263 (1.3)	16 (0.9)	265 (1.8)
New York	15 (1.1)	241 (3.3)	26 (1.0)	260 (2.4)	22 (1.1)	272 (2.1)	23 (1.1)	276 (2.2)	15 (0.8)>	279 (3.1)
North Carolina	16 (0.8)«	241 (2.0)	29 (0.9)	255 (1.4)>	23 (0.8)>	261 (1.6)	20 (0.7)	267 (2.1)>	12 (0.8)	264 (2.7)
North Dakota	5 (0.5)	266 (3.1)	21 (1.0)<	274 (1.7)	26 (1.0)	283 (1.8)	31 (1.0)>	287 (1.5)	17 (0.9)	289 (1.4)
Ohio	12 (1.1)	246 (2.6)	24 (0.8)<	264 (2.1)	25 (0.8)	270 (1.7)	24 (1.1)	273 (1.9)	15 (0.9)	279 (3.5)
Oklahoma	11 (0.8)<	252 (1.9)	30 (0.9)	265 (1.6)	25 (0.9)	270 (1.5)	22 (1.1)	274 (1.7)	12 (0.9)	269 (2.4)
Pennsylvania	9 (0.8)	246 (3.4)	22 (0.9)<	264 (1.9)	26 (0.9)	273 (1.5)	28 (1.1)	277 (1.5)	16 (0.9)	280 (2.5)
Rhode Island	9 (0.7)<	247 (2.4)>	25 (0.9)	257 (1.5)	26 (1.1)	269 (1.5)>	26 (1.0)	271 (1.6)	14 (0.8)	274 (2.3)
South Carolina[1]	17 (0.9)	241 (1.4)	30 (0.9)	256 (1.2)	22 (0.8)	265 (1.8)	18 (0.7)	272 (1.6)	12 (0.7)	269 (2.3)
Tennessee[1]	14 (1.0)	244 (2.3)	28 (1.0)	255 (1.6)	24 (0.8)	260 (1.6)	22 (0.8)	264 (1.9)	11 (0.9)	265 (4.0)
Texas	12 (0.8)	245 (2.2)	27 (0.9)<	258 (1.4)	24 (0.9)	267 (1.8)	22 (1.0)	271 (2.0)>	15 (0.9)	274 (2.6)>
Utah[1]	5 (0.5)	253 (3.0)	16 (0.9)	266 (1.5)	21 (1.0)	269 (1.6)	30 (1.0)	277 (1.2)	26 (1.1)	282 (1.3)
Virginia	15 (1.0)	245 (1.7)	27 (0.9)	261 (1.3)	23 (0.9)	270 (1.8)	22 (0.9)	280 (1.6)>	13 (0.8)	280 (2.1)
West Virginia	13 (0.7)<	244 (1.7)	31 (1.1)	256 (1.4)	23 (1.0)	261 (1.5)	22 (0.9)	266 (1.7)	11 (0.7)	263 (2.3)
Wisconsin	8 (0.7)	257 (2.6)	22 (1.5)	270 (1.9)	23 (0.9)	278 (1.7)	28 (0.8)	282 (1.3)	19 (1.7)	287 (3.4)
Wyoming	8 (0.6)	256 (2.0)	20 (0.8)<	270 (1.4)	23 (0.9)	275 (1.5)	27 (1.1)	280 (1.2)	22 (0.9)>	278 (1.6)
TERRITORIES										
Guam	20 (0.9)	230 (2.6)	20 (1.0)	247 (2.3)	20 (1.0)	246 (2.5)>	19 (0.9)	232 (2.2)	22 (0.8)>	223 (2.3)
Virgin Islands	32 (1.2)>	221 (1.7)	26 (1.3)	225 (1.6)	16 (0.7)	228 (2.3)	13 (0.7)	219 (2.8)	13 (0.9)<	215 (3.0)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

Curricular Emphasis and Coursework in Mathematics

TABLE A.31 | **Schools' Reports on the Identification of Mathematics as a Priority**

PUBLIC SCHOOLS	Grade 4 - 1992, Yes, Mathematics is A Special Priority	
	Percentage of Students	Average Proficiency
NATION	74 (3.4)	217 (1.2)
Northeast	81 (7.1)	221 (2.5)
Southeast	70 (7.6)	209 (2.6)
Central	78 (6.1)	222 (2.7)
West	69 (6.4)	215 (2.0)
STATES		
Alabama	78 (3.8)	206 (1.8)
Arizona	80 (3.6)	214 (1.4)
Arkansas	86 (4.3)	207 (1.4)
California	67 (5.2)	206 (2.0)
Colorado	67 (4.9)	220 (1.3)
Connecticut	81 (4.1)	226 (1.5)
Delaware	74 (0.2)	218 (1.1)
Dist. Columbia	95 (0.2)	191 (0.6)
Florida	76 (5.2)	212 (1.8)
Georgia	77 (4.0)	214 (1.7)
Hawaii	82 (4.0)	213 (1.5)
Idaho	72 (4.3)	221 (1.2)
Indiana	73 (4.8)	219 (1.3)
Iowa	59 (4.5)	229 (1.6)
Kentucky	66 (5.6)	213 (1.3)
Louisiana	86 (2.9)	203 (1.7)
Maine	70 (5.0)	231 (1.3)
Maryland	92 (2.7)	216 (1.4)
Massachusetts	77 (4.0)	225 (1.3)
Michigan	83 (3.8)	217 (1.8)
Minnesota	72 (4.5)	227 (1.4)
Mississippi	92 (2.4)	199 (1.2)
Missouri	56 (5.5)	220 (2.0)
Nebraska	50 (5.0)	223 (1.9)
New Hampshire	76 (4.2)	230 (1.4)
New Jersey	95 (2.5)	225 (1.6)
New Mexico	57 (5.6)	211 (1.8)
New York	73 (5.0)	216 (1.9)
North Carolina	80 (4.1)	211 (1.4)
North Dakota	57 (5.1)	228 (1.2)
Ohio	86 (3.3)	218 (1.3)
Oklahoma	78 (4.2)	220 (1.2)
Pennsylvania	71 (4.6)	221 (1.5)
Rhode Island	64 (4.2)	211 (2.1)
South Carolina	89 (3.7)	210 (1.3)
Tennessee	76 (4.9)	208 (1.7)
Texas	79 (4.8)	215 (1.4)
Utah	74 (4.7)	222 (1.1)
Virginia	78 (3.7)	219 (1.7)
West Virginia	85 (3.2)	214 (1.2)
Wisconsin	67 (4.9)	227 (1.7)
Wyoming	69 (4.2)	224 (1.2)
TERRITORY		
Guam	94 (0.1)	191 (0.9)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.31 | **Schools' Reports on the Identification of Mathematics as a Priority (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992, Yes, Mathematics Is A Special Priority	
	Percentage of Students	Average Proficiency
NATION	68 (3.7)	264 (1.3)
Northeast	80 (8.4)	263 (2.9)
Southeast	71 (7.8)	255 (1.7)
Central	65 (7.6)	270 (2.9)
West	59 (6.9)	267 (3.2)
STATES		
Alabama	73 (4.9)	252 (1.9)
Arizona	69 (4.7)	264 (1.8)
Arkansas	65 (4.6)	254 (1.5)
California	62 (4.3)	257 (2.2)
Colorado	47 (4.6)	268 (1.5)
Connecticut	77 (4.3)	270 (1.7)
Delaware	68 (0.2)»	259 (1.2)
Dist. Columbia	100 (0.0)	231 (0.9)
Florida	66 (4.6)	258 (2.0)
Georgia	69 (5.1)	257 (1.3)
Hawaii	75 (0.2)»	254 (1.0) >
Idaho	59 (4.7)	274 (1.1)
Indiana	46 (4.8)	269 (1.9)
Iowa	42 (5.4)	283 (1.7) >
Kentucky	54 (5.3)	262 (1.7)
Louisiana	74 (4.6)	247 (2.2)
Maine[1]	50 (5.2)	278 (1.3)
Maryland	85 (4.0)	264 (1.7)
Massachusetts[1]	56 (5.2)	274 (1.9)
Michigan	78 (4.8)	264 (1.9)
Minnesota	43 (5.7)	280 (1.5) >
Mississippi[1]	77 (3.8)	244 (1.5)
Missouri[1]	44 (5.4)	268 (2.1)
Nebraska	26 (4.6) <	273 (2.4)
New Hampshire	81 (4.1)»	277 (1.2)
New Jersey	84 (4.7)	269 (2.0)
New Mexico	50 (4.6) <	256 (1.5)
New York	66 (4.4)	258 (3.6)
North Carolina	67 (5.0)	255 (1.5) >
North Dakota	38 (4.4)	282 (1.7)
Ohio	80 (4.8) >	266 (2.0)
Oklahoma	51 (4.8)	265 (2.0)
Pennsylvania	64 (4.7)	271 (1.7)
Rhode Island	73 (0.2)»	267 (0.9)»
South Carolina[1]	83 (4.2)	261 (1.3)
Tennessee[1]	69 (5.3)	254 (1.6)
Texas	86 (3.8)	262 (1.4) >
Utah[1]	64 (4.1)	274 (1.0)
Virginia	77 (4.7)	265 (1.5)
West Virginia	63 (4.8)	258 (1.1)
Wisconsin	59 (5.4)	277 (2.5)
Wyoming	51 (3.3) >	273 (1.3)
TERRITORIES		
Guam	66 (0.2)	234 (1.2)
Virgin Islands	100 (0.0)	222 (1.1)»

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

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TABLE A.32 | **Students' Reports on Current Mathematics Course**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Algebra		Pre-Algebra		Eighth-Grade Mathematics		Other Mathematics	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	19 (1.2)	299 (2.0)	28 (2.5)	271 (1.7)	50 (2.9)	253 (1.5)	3 (0.4)	248 (4.5)
Northeast	26 (3.0)	296 (4.9)	22 (2.5)	272 (3.5)	47 (3.0)	252 (3.9)	4 (0.8)	*** (***)
Southeast	16 (2.2)	292 (2.9)	31 (5.2)	265 (3.8)	50 (5.7)	246 (2.9)	3 (1.1)	*** (***)
Central	17 (2.6)	305 (2.3)	27 (4.6)	275 (2.0)	53 (5.8)	263 (3.1)	3 (0.5)	*** (***)
West	18 (1.7)	302 (4.1)	29 (5.7)	273 (2.6)!	49 (6.3)	253 (2.6)	3 (0.6)	*** (***)
STATES								
Alabama	15 (1.4)	283 (3.4)	18 (1.8)	264 (2.9)	63 (2.2)	241 (1.8)	4 (0.7)	235 (5.2)
Arizona	20 (1.4)	289 (3.0)	31 (2.6)	269 (1.5)	44 (2.9)	252 (1.6) >	5 (0.4)	248 (4.0)
Arkansas	15 (1.2) >	290 (2.5)	19 (2.0)	265 (2.0)	64 (2.4) <	246 (1.1)	2 (0.4)	*** (***)
California	21 (1.1) >	290 (2.2)	21 (1.7)	271 (2.9)	53 (1.7)	247 (1.9)	4 (0.7)	234 (5.0) <
Colorado	21 (1.2)	297 (1.8)	36 (2.3)	269 (1.6)	38 (2.5)	261 (1.9) >	4 (0.6)	265 (5.7)
Connecticut	20 (1.1)	305 (1.8)	31 (1.9)	280 (1.7)	46 (2.2)	257 (1.4) >	3 (0.6)	255 (8.6)
Delaware	23 (1.1)	294 (1.8)	34 (1.0) »	264 (1.2)	41 (1.3) «	244 (1.0)	2 (0.3)	*** (***)
Dist. Columbia	35 (1.1)	251 (1.4)	19 (1.1) »	236 (2.0)	42 (1.2) «	219 (1.3)	3 (0.5)	*** (***)
Florida	23 (2.3) >	290 (2.5)	25 (1.8) >	267 (1.9)	49 (2.3) «	242 (1.5)	4 (0.5)	234 (7.2)
Georgia	16 (1.5)	291 (3.9)	31 (2.0)	265 (1.6) <	49 (2.5)	244 (1.6)	2 (0.4)	*** (***)
Hawaii	12 (0.6)	297 (2.1)	27 (0.8)	273 (1.3)	55 (1.0) «	244 (1.0) »	6 (0.5)	223 (4.1)
Idaho	18 (1.3)	303 (1.5)	41 (1.9) »	275 (1.3) >	36 (2.2) «	263 (1.2)	5 (0.5)	247 (4.1)
Indiana	16 (1.0)	306 (1.9)	15 (2.0)	282 (2.0)	67 (1.9)	258 (1.2)	2 (0.3)	*** (***)
Iowa	14 (1.5)	313 (2.0)	24 (2.6)	287 (1.8)	60 (3.3)	275 (1.5)	2 (0.3)	*** (***)
Kentucky	16 (1.3)	295 (2.6)	22 (1.7)	270 (1.9)	60 (2.2) <	251 (1.3)	3 (0.4)	241 (7.4)
Louisiana	12 (1.3)	273 (3.6)	61 (3.0) »	247 (1.9)	26 (3.2) «	243 (2.3)	1 (0.2)	*** (***)
Maine[1]	18 (1.5)	306 (2.0)	28 (1.9)	281 (1.4)	51 (2.3)	268 (1.5)	3 (0.5)	*** (***)
Maryland	32 (1.7) >	288 (2.1)	31 (1.4)	261 (1.6)	33 (1.8)	243 (1.7)	4 (0.5)	277 (6.9)
Massachusetts[1]	26 (1.6)	298 (1.9)	33 (1.9)	276 (1.7)	38 (2.2)	254 (1.6)	3 (0.6)	252 (7.5)
Michigan	19 (2.2)	293 (3.7)	23 (2.2)	274 (2.3)	55 (2.9)	255 (1.4)	3 (0.5)	261 (5.8)
Minnesota	23 (2.1)	307 (2.1)	33 (3.0)	279 (1.6)	42 (3.1) <	270 (1.3)	3 (0.5)	281 (9.2)
Mississippi[1]	13 (1.0)	282 (2.6)	19 (2.1)	259 (1.9)	67 (2.4)	235 (1.2)	2 (0.4)	*** (***)
Missouri[1]	13 (1.2)	305 (2.5)	26 (1.9)	278 (2.0)	59 (2.6)	261 (1.3)	2 (0.4)	238 (6.3)
Nebraska	17 (1.9) >	303 (2.6)	25 (2.5)	272 (2.5)	55 (3.3) <	272 (1.4)	3 (0.7)	262 (4.8)!
New Hampshire	18 (1.3)	307 (2.2)	35 (2.3)	279 (1.2)	45 (2.4) «	266 (1.2) >	2 (0.3)	*** (***)
New Jersey	19 (1.3)	304 (2.5)	23 (2.0)	278 (2.3)	54 (2.1)	258 (2.0)	3 (0.4)	261 (5.3) <
New Mexico	13 (1.0)	267 (2.1)	25 (2.2)	267 (2.0)	58 (2.5)	250 (1.2)	4 (0.3)	249 (3.6) <
New York	13 (1.3)	295 (4.1)	9 (1.2)	282 (3.6)	70 (1.8)	258 (2.1)	8 (0.8)	280 (5.9)
North Carolina	22 (1.4)	291 (1.7)	30 (2.6) >	261 (1.6)	45 (2.9) «	241 (1.8) >	3 (0.4)	231 (7.0)
North Dakota	12 (1.5)	309 (2.4)	30 (2.8) »	283 (1.7)	57 (3.3) «	278 (1.7)	2 (0.3)	*** (***)
Ohio	13 (1.1)	304 (1.6)	24 (2.9)	277 (2.8)	61 (3.2)	256 (2.1)	1 (0.4)	*** (***)
Oklahoma	16 (1.2)	296 (1.7)	36 (2.8)	272 (1.7)	45 (3.0)	256 (1.8)	3 (0.4)	*** (***)
Pennsylvania	27 (1.7)	296 (1.9)	27 (2.4)	271 (2.0)	42 (2.5)	256 (1.7) >	3 (0.4)	239 (7.6)
Rhode Island	21 (0.9) »	295 (1.5)	31 (0.9)	268 (1.2) <	45 (0.9) «	250 (0.8) »	2 (0.3)	*** (***)
South Carolina[1]	17 (0.9)	301 (1.9)	17 (1.4)	272 (2.9)	63 (1.5)	248 (1.1)	3 (0.6)	235 (3.7)
Tennessee[1]	11 (1.4)	290 (3.0)	14 (1.5)	271 (2.6)	73 (2.4)	252 (1.5)	3 (0.6)	*** (***)
Texas	17 (1.2) >	302 (2.5)	18 (1.8)	273 (1.9)	62 (2.5) <	252 (1.1)	2 (0.3)	*** (***)
Utah[1]	32 (1.2)	296 (1.3)	38 (1.6)	270 (1.2)	25 (1.8)	251 (1.9)	5 (0.6)	275 (5.2)
Virginia	19 (1.1)	303 (1.8)	41 (2.3)	269 (1.7)	38 (2.2) <	248 (1.4)	2 (0.4)	*** (***)
West Virginia	21 (1.5)	288 (1.7)	27 (1.9) >	264 (1.5)	50 (2.0) «	244 (1.0)	2 (0.3)	*** (***)
Wisconsin	14 (1.5)	304 (3.0)	20 (2.6)	284 (3.6)	63 (3.0)	271 (1.9)	3 (0.4)	253 (7.1)
Wyoming	18 (1.2)	301 (1.6)	33 (1.4)	273 (1.2)	44 (2.0)	266 (1.4)	4 (0.4)	253 (2.3)
TERRITORIES								
Guam	11 (0.7) »	270 (3.0)	22 (1.1) »	258 (2.0)	64 (1.2) «	222 (1.2) <	3 (0.4)	*** (***)
Virgin Islands	6 (0.5)	249 (3.9)	14 (0.7) »	231 (2.5)	78 (0.9) «	219 (1.2)	2 (0.4)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. The percentages may not add to 100 percent because a small number of students reported not taking a mathematics course.

[1] Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.

» The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. « The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. *** Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.33 | **Students' Reports on Which Mathematics Class They Plan to Take in Ninth Grade**

PUBLIC SCHOOLS	Grade 8 - 1992									
	I Don't Know		Basic, General, Business or Consumer Mathematics		Pre-Algebra		Algebra I or Elementary Algebra		Geometry	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (1.2)	254 (1.8)	9 (0.8)	239 (2.1)	16 (1.0)	253 (1.4)	35 (1.6)	275 (1.0)	14 (0.9)	294 (1.9)
Northeast	28 (4.0)	260 (4.9)	11 (0.9)	241 (2.9)	9 (1.7)	251 (4.8)	30 (2.5)	275 (2.6)	11 (1.7)	288 (5.1)
Southeast	19 (1.5)	244 (1.7)	9 (1.4)	235 (4.4)	17 (1.9)	244 (2.1)	38 (3.1)	268 (2.0)	13 (1.3)	287 (3.3)
Central	17 (1.9)	263 (3.1)	10 (1.7)	239 (4.0)	18 (2.0)	261 (3.1)	36 (2.7)	280 (2.1)	16 (2.3)	302 (2.7)
West	21 (2.0)	251 (2.4)	7 (1.6)	240 (4.5)!	19 (1.9)	253 (1.8)	34 (3.6)	277 (1.7)	16 (1.7)	297 (3.9)
STATES										
Alabama	25 (1.1)	240 (1.7)	13 (0.9)	235 (2.2)	17 (1.1)	243 (2.2)	29 (1.1)	264 (1.9)	12 (1.2)	278 (3.7)
Arizona	21 (1.1)	253 (1.9)	9 (0.7)	242 (2.4)	19 (1.2)	252 (1.5)	36 (1.6)	272 (1.2)	11 (1.0)	295 (3.0)
Arkansas	25 (1.3)	244 (1.5)	7 (0.7)	233 (2.4)	20 (1.1)	246 (1.7)	32 (1.5)	264 (1.7)	11 (1.1)	286 (2.9)
California	25 (1.2)	246 (2.3)	9 (0.6)	236 (2.5)	17 (1.0)	249 (2.7)	28 (1.4)	273 (2.3)	18 (1.1)	286 (2.5)
Colorado	19 (1.1)	257 (1.8)	5 (0.5)	248 (3.6)	15 (0.9)	257 (2.2)	38 (1.7)	276 (1.4)	19 (1.1)	294 (1.8)
Connecticut	19 (1.2)	253 (2.1)	8 (0.8)	241 (3.0)	13 (1.1)	256 (2.1)	40 (1.6)	283 (1.0)	16 (1.1)	304 (2.0)
Delaware	23 (1.0)	251 (2.1)	9 (0.8)	237 (2.7)	15 (1.0)	247 (1.7)	34 (1.1)	267 (1.5)	16 (0.8)	292 (2.2)
Dist. Columbia	25 (1.0)	226 (1.8)	6 (0.7)	214 (3.0)	10 (0.6)	217 (2.9)	19 (1.0)	239 (2.1)	36 (1.1)	245 (1.4)
Florida	20 (1.1)	246 (1.9)	8 (0.6)	232 (2.8)	23 (1.3)	245 (1.5)	28 (1.4)	269 (1.5)	18 (1.5)	286 (2.3)
Georgia	22 (1.2)	249 (1.6)	7 (0.7)	233 (2.5)	19 (1.4)	247 (2.2)	33 (1.2)	268 (1.2)	15 (1.3)	281 (2.6)
Hawaii	25 (1.0)	235 (1.9)	9 (0.5)	238 (2.0)	25 (0.9)	254 (1.1)	25 (0.8)	276 (1.5)	11 (0.6)	293 (2.1)
Idaho	20 (1.0)	265 (1.5)	5 (0.5)	249 (2.5)	17 (1.0)	259 (1.6)	41 (1.2)	279 (1.1)	14 (1.1)	303 (1.6)
Indiana	17 (1.1)	254 (2.2)	13 (0.7)	242 (1.8)	21 (1.1)	259 (1.4)	33 (1.4)	281 (1.2)	13 (1.0)	303 (2.4)
Iowa	16 (1.7)	273 (1.9)	9 (0.8)	256 (2.5)	16 (1.1)	269 (1.4)	42 (1.6)	290 (1.5)	10 (1.3)	310 (2.2)
Kentucky	24 (1.2)	249 (1.6)	10 (0.8)	238 (1.9)	18 (1.0)	251 (1.7)	32 (1.3)	272 (1.4)	10 (0.9)	292 (2.8)
Louisiana	23 (0.9)	243 (2.2)	6 (0.6)	234 (3.7)	7 (0.7)	237 (3.3)	49 (1.5)	252 (1.6)	14 (1.1)	263 (3.4)
Maine	21 (1.3)	271 (1.5)	10 (0.6)	251 (2.4)	14 (0.9)	266 (2.0)	38 (1.9)	282 (1.3)	13 (0.9)	307 (2.1)
Maryland	16 (1.1)	243 (2.4)	8 (0.6)	233 (2.4)	12 (1.0)	247 (2.0)	34 (1.3)	269 (1.5)	23 (1.6)	287 (3.0)
Massachusetts	23 (1.3)	261 (2.3)	8 (0.7)	245 (2.2)	10 (0.9)	257 (2.3)	38 (1.5)	278 (1.1)	15 (1.1)	297 (2.2)
Michigan	27 (1.5)	258 (1.9)	10 (0.8)	248 (2.0)	15 (1.2)	250 (2.1)	30 (1.4)	277 (1.4)	15 (1.4)	293 (2.3)
Minnesota	18 (1.4)	269 (1.5)	4 (0.5)	249 (3.4)	11 (1.0)	263 (2.1)	45 (1.9)	283 (1.3)	18 (1.7)	309 (2.3)
Mississippi	19 (1.1)	236 (1.9)	10 (0.9)	226 (2.5)	21 (1.2)	235 (1.6)	35 (1.5)	255 (1.4)	11 (1.0)	266 (3.0)
Missouri	19 (1.3)	256 (1.9)	10 (0.8)	248 (2.0)	22 (1.1)	260 (1.2)	35 (1.3)	282 (1.4)	11 (1.0)	299 (3.8)
Nebraska	21 (1.5)	265 (1.8)	5 (0.6)	252 (3.1)	15 (1.2)	263 (2.3)	41 (2.0)	284 (1.5)	15 (1.3)	298 (2.6)
New Hampshire	20 (1.4)	269 (1.5)	7 (0.7)	253 (2.2)	14 (1.1)	262 (1.7)	43 (1.7)	283 (1.1)	12 (0.8)	308 (2.4)
New Jersey	19 (1.6)	255 (3.1)	10 (0.9)	240 (3.3)	12 (0.9)	261 (2.2)	39 (1.9)	280 (1.3)	16 (1.2)	297 (3.0)
New Mexico	27 (1.3)	248 (1.4)	10 (0.8)	241 (1.9)	17 (1.2)	249 (1.6)	32 (1.6)	271 (1.5)	9 (0.8)	284 (2.8)
New York	47 (1.8)	263 (2.1)	14 (0.9)	250 (2.4)	6 (0.6)	263 (4.7)	12 (1.0)	280 (2.7)	9 (0.9)	273 (5.0)
North Carolina	17 (1.0)	243 (2.1)	7 (0.6)	233 (2.8)	17 (0.9)	240 (2.1)	37 (1.3)	262 (1.3)	20 (1.1)	287 (1.7)
North Dakota	21 (1.6)	274 (2.0)	3 (0.6)	262 (2.9)	11 (1.0)	270 (2.1)	53 (1.8)	286 (1.3)	9 (0.8)	308 (2.2)
Ohio	17 (1.3)	252 (1.7)	13 (1.0)	244 (1.9)	23 (1.9)	259 (3.0)	32 (2.4)	281 (1.7)	11 (1.0)	299 (2.4)
Oklahoma	22 (1.1)	257 (1.9)	5 (0.6)	236 (4.3)	16 (1.3)	255 (2.5)	43 (1.8)	274 (1.4)	11 (0.8)	295 (2.6)
Pennsylvania	18 (1.4)	260 (2.2)	10 (0.9)	244 (2.1)	13 (0.9)	254 (2.3)	35 (1.8)	274 (1.6)	16 (1.9)	296 (2.3)
Rhode Island	22 (0.9)	256 (1.6)	8 (0.5)	240 (2.1)	14 (0.9)	254 (2.0)	38 (1.0)	269 (1.1)	10 (0.6)	287 (2.5)
South Carolina	20 (1.1)	246 (1.6)	11 (0.8)	234 (2.2)	20 (1.0)	248 (1.6)	30 (1.3)	269 (1.5)	15 (1.0)	290 (2.4)
Tennessee	23 (1.0)	249 (2.1)	9 (0.8)	236 (1.8)	22 (1.1)	249 (1.9)	33 (1.3)	271 (1.4)	9 (1.2)	281 (3.4)
Texas	25 (1.3)	250 (1.7)	6 (0.5)	239 (3.4)	22 (1.2)	251 (1.8)	30 (1.6)	274 (1.8)	15 (1.0)	299 (2.6)
Utah	13 (0.8)	259 (2.1)	3 (0.4)	237 (4.0)	16 (1.0)	254 (1.5)	38 (1.0)	272 (1.1)	25 (0.9)	297 (1.2)
Virginia	15 (0.9)	243 (1.6)	6 (0.6)	235 (2.4)	11 (0.9)	247 (1.9)	47 (1.6)	271 (1.1)	17 (0.9)	302 (2.1)
West Virginia	21 (1.0)	244 (2.1)	9 (0.6)	237 (1.6)	15 (1.2)	244 (1.5)	34 (1.4)	264 (1.1)	17 (1.2)	286 (1.7)
Wisconsin	17 (1.4)	263 (3.8)	9 (0.9)	252 (3.2)	17 (1.1)	265 (2.5)	41 (1.6)	286 (1.3)	12 (1.2)	304 (2.2)
Wyoming	25 (1.1)	266 (1.7)	5 (0.6)	249 (2.1)	16 (1.0)	262 (1.6)	38 (1.1)	279 (0.8)	13 (1.0)	301 (2.1)
TERRITORIES										
Guam	41 (1.5)	225 (1.5)	10 (0.6)	224 (2.9)	18 (0.9)	231 (2.1)	18 (1.0)	266 (1.9)	9 (0.9)	253 (3.6)
Virgin Islands	31 (1.0)	219 (1.6)	19 (1.1)	221 (1.8)	20 (0.9)	221 (2.3)	15 (1.3)	227 (2.3)	10 (0.8)	231 (3.0)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. The percentages may not add to 100 percent because a small number of students reported planning to take other mathematics courses. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.34 | **Teachers' Reports on the Amount of Time Spent on Mathematics Instruction Each Week**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Two and One-Half Hours or Less Each Week		More than Two and One-Half Hours, but Less than Four Hours Each Week		Four Hours or More Each Week	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	5 (1.0)	223 (3.8)!	21 (2.1)	221 (2.7)	74 (2.5)	216 (1.1)
Northeast	6 (2.8)	*** (***)	21 (5.6)	218 (3.7)!	73 (6.8)	221 (3.7)
Southeast	4 (1.2)	210 (6.0)!	8 (2.2)	203 (3.5)!	88 (2.7)	208 (2.2)
Central	4 (1.6)	*** (***)	34 (5.0)	222 (4.0)	63 (5.4)	225 (1.8)
West	5 (2.2)	*** (***)	24 (3.6)	227 (5.8)	71 (4.9)	213 (1.7)
STATES						
Alabama	8 (1.9)	200 (3.9)!	7 (1.3)	209 (5.1)	85 (2.3)	208 (1.7)
Arizona	5 (1.2)	216 (6.3)!	27 (2.6)	212 (2.5)	68 (2.8)	215 (1.2)
Arkansas	6 (1.7)	206 (5.1)!	30 (3.7)	208 (1.9)	64 (3.5)	210 (1.3)
California	3 (1.2)	190 (7.6)!	26 (3.9)	211 (3.3)	70 (3.9)	207 (2.1)
Colorado	7 (1.7)	217 (4.1)!	30 (3.2)	223 (1.9)	63 (3.8)	219 (1.5)
Connecticut	1 (0.5)	*** (***)	19 (3.0)	231 (2.6)	80 (3.0)	227 (1.4)
Delaware	7 (0.4)	227 (4.3)	33 (0.7)	215 (1.2)	61 (0.8)	218 (1.1)
Dist. Columbia	9 (0.4)	198 (2.9)	16 (1.0)	189 (2.7)	75 (1.1)	190 (1.0)
Florida	3 (1.0)	211 (4.9)!	21 (2.7)	215 (2.0)	75 (2.8)	212 (1.6)
Georgia	4 (1.1)	215 (6.0)!	10 (1.6)	217 (3.0)	86 (1.8)	213 (1.5)
Hawaii	6 (1.3)	213 (4.8)!	36 (2.8)	213 (2.0)	55 (3.1)	213 (1.7)
Idaho	5 (1.4)	216 (3.1)!	27 (3.5)	221 (1.7)	68 (3.4)	220 (1.2)
Indiana	3 (1.0)	231 (5.6)!	39 (3.7)	218 (1.9)	58 (3.7)	220 (1.4)
Iowa	6 (2.1)	223 (4.2)!	36 (3.7)	229 (1.6)	56 (4.0)	230 (1.4)
Kentucky	7 (1.8)	211 (5.1)!	12 (2.6)	212 (2.3)!	81 (2.8)	214 (1.3)
Louisiana	7 (1.4)	194 (4.8)!	10 (2.6)	202 (7.8)!	84 (2.9)	204 (1.5)
Maine	4 (1.3)	236 (3.3)!	39 (4.3)	230 (1.9)	57 (4.1)	231 (1.4)
Maryland	4 (1.4)	233 (8.2)!	11 (2.4)	219 (9.6)!	85 (2.8)	217 (1.5)
Massachusetts	2 (0.9)	221 (6.4)!	35 (3.9)	224 (2.0)	63 (4.0)	228 (1.5)
Michigan	5 (1.4)	222 (6.8)!	29 (3.4)	224 (3.0)	66 (3.4)	217 (2.0)
Minnesota	7 (1.7)	229 (3.5)!	31 (3.8)	228 (1.6)	63 (3.8)	226 (1.7)
Mississippi	10 (2.2)	194 (3.3)!	14 (2.6)	203 (4.1)	76 (3.2)	200 (1.4)
Missouri	5 (1.4)	223 (3.8)!	18 (3.2)	221 (3.0)	77 (3.1)	222 (1.6)
Nebraska	8 (2.3)	219 (3.2)!	37 (4.0)	225 (2.1)	55 (3.3)	226 (1.7)
New Hampshire	4 (1.2)	233 (5.6)!	37 (4.1)	225 (1.8)	60 (4.1)	231 (1.4)
New Jersey	3 (1.4)	*** (***)	29 (4.4)	231 (2.4)	69 (4.6)	226 (2.0)
New Mexico	4 (1.1)	207 (4.5)!	20 (3.0)	211 (2.4)	76 (3.3)	213 (1.5)
New York	6 (1.4)	214 (6.8)!	27 (3.4)	226 (2.2)	67 (3.8)	214 (1.8)
North Carolina	8 (1.4)	220 (4.3)	32 (3.1)	213 (1.7)	60 (3.2)	211 (1.6)
North Dakota	6 (1.8)	224 (3.3)!	37 (4.7)	227 (1.3)	56 (4.8)	229 (1.1)
Ohio	2 (0.8)	*** (***)	34 (4.2)	221 (2.1)	64 (4.2)	216 (1.9)
Oklahoma	8 (1.6)	219 (3.2)!	34 (3.9)	219 (1.6)	58 (4.3)	220 (1.3)
Pennsylvania	4 (1.2)	224 (5.6)!	30 (3.3)	219 (3.1)	67 (3.4)	225 (1.7)
Rhode Island	3 (1.1)	*** (***)	24 (3.3)	217 (3.1)	74 (3.6)	213 (1.8)
South Carolina	4 (1.7)	205 (3.6)!	15 (2.6)	215 (3.4)	81 (3.2)	211 (1.3)
Tennessee	4 (1.3)	210 (5.8)!	17 (2.0)	207 (2.3)	79 (2.3)	210 (1.5)
Texas	4 (1.0)	214 (4.6)!	12 (2.4)	217 (4.2)	83 (2.6)	218 (1.6)
Utah	6 (1.4)	218 (4.3)!	23 (2.9)	220 (1.8)	70 (3.1)	224 (1.1)
Virginia	3 (1.0)	218 (5.1)!	17 (2.9)	215 (3.5)	79 (3.2)	221 (1.5)
West Virginia	4 (1.5)	214 (6.2)!	9 (1.9)	217 (2.0)!	87 (2.5)	213 (1.3)
Wisconsin	2 (0.9)	*** (***)	27 (3.2)	228 (1.9)	71 (3.0)	229 (1.3)
Wyoming	3 (1.2)	228 (5.2)!	22 (3.4)	223 (2.1)	75 (3.4)	225 (1.3)
TERRITORY						
Guam	9 (0.5)	195 (2.0)	20 (1.1)	189 (1.8)	71 (1.1)	192 (1.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.34 | **Teachers' Reports on the Amount of Time Spent on Mathematics Instruction Each Week (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Two and One-Half Hours or Less Each Week		More than Two and One-Half Hours, but Less than Four Hours Each Week		Four Hours or More Each Week	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	13 (2.2)	269 (3.9)	55 (2.7)	268 (1.5)	32 (3.1)	266 (2.3)
Northeast	7 (3.6)	*** (***)	58 (5.3)	266 (3.3)	35 (7.9)	271 (5.1)!
Southeast	10 (3.1)	262 (4.5)!	52 (5.5)	265 (1.7)	37 (4.1)	256 (2.8)
Central	14 (3.7)	272 (5.2)!	62 (8.6)	275 (3.0)	24 (7.6)	277 (5.2)!
West	19 (5.6)	271 (6.7)!	51 (1.9)	267 (3.3)	30 (5.4)	266 (3.2)
STATES						
Alabama	6 (2.1)	244(19.3)!	34 (3.7)	247 (2.2)	60 (3.6)	255 (1.9)
Arizona	13 (2.2)	258 (3.0)	53 (3.7)	266 (1.6)	34 (3.3)	264 (2.5)
Arkansas	13 (2.7)	257 (4.9)!	45 (3.9)	257 (1.5)	42 (4.1)	254 (2.0)
California	12 (2.1)	253 (3.7)	46 (3.4)	260 (2.4)	43 (3.2)	264 (2.5)
Colorado	18 (2.3)	272 (2.6)	55 (3.4)	272 (1.5)	27 (2.8)	269 (2.3)
Connecticut	6 (1.5)	266 (6.8)!	74 (3.0)	273 (1.4)	21 (2.9)	278 (3.9)
Delaware	4 (0.4)	254 (5.1)	66 (0.9)	264 (1.2)	30 (0.9)	259 (1.8)
Dist. Columbia	9 (0.8)	241 (3.5)	39 (1.1)	229 (1.7)	52 (1.1)	237 (1.4)
Florida	10 (1.7)	253 (4.6)	50 (3.2)	259 (1.6)	40 (3.2)	262 (2.3)
Georgia	7 (1.3)	252 (3.6)	37 (3.4)	256 (1.9)	56 (3.7)	260 (1.8)
Hawaii	10 (0.6)	247 (2.5)	56 (1.0)	257 (1.1)	34 (1.0)	261 (1.5)
Idaho	18 (2.5)	276 (2.3)	55 (3.0)	277 (1.5)	28 (2.6)	269 (1.6)
Indiana	12 (3.5)	268 (3.4)!	56 (4.2)	269 (1.8)	32 (3.4)	271 (1.7)
Iowa	21 (4.2)	281 (2.5)!	59 (4.8)	283 (1.3)	20 (3.3)	285 (2.6)
Kentucky	9 (1.8)	266 (5.1)!	44 (3.8)	259 (1.8)	47 (3.8)	264 (1.5)
Louisiana	10 (2.0)	251 (6.1)!	37 (4.0)	249 (2.5)	54 (4.3)	250 (2.3)
Maine	17 (2.8)	280 (3.3)	71 (3.7)	278 (1.3)	12 (2.8)	275 (4.7)!
Maryland	10 (2.1)	258 (5.9)!	44 (3.8)	266 (2.3)	45 (3.7)	267 (2.3)
Massachusetts	11 (2.1)	271 (4.1)	61 (3.1)	272 (1.6)	28 (3.0)	273 (2.9)
Michigan	14 (2.3)	266 (4.9)	48 (3.7)	270 (2.6)	39 (3.6)	263 (2.5)
Minnesota	18 (3.0)	277 (2.3)	41 (3.9)	281 (2.0)	41 (3.5)	284 (1.7)
Mississippi	6 (2.3)	254 (5.6)!	34 (4.1)	246 (2.2)	60 (4.2)	245 (1.8)
Missouri	14 (2.6)	267 (2.6)	42 (3.8)	272 (1.7)	44 (4.2)	271 (1.4)
Nebraska	11 (2.6)	279 (4.2)!	64 (4.2)	275 (1.4)	25 (3.5)	282 (2.5)
New Hampshire	7 (1.2)	280 (4.0)	55 (3.6)	277 (1.4)	38 (3.6)	278 (1.7)
New Jersey	6 (1.8)	272 (5.6)!	65 (3.9)	277 (2.3)	28 (3.8)	259 (3.8)
New Mexico	20 (2.6)	254 (2.5)	55 (3.0)	260 (1.4)	26 (2.9)	261 (1.5)
New York	8 (1.7)	258 (8.1)!	71 (3.7)	272 (2.1)	20 (3.1)	250 (5.6)
North Carolina	6 (1.3)	253 (4.4)!	42 (3.7)	257 (2.1)	52 (3.5)	258 (1.8)
North Dakota	19 (3.1)	285 (1.9)	37 (4.0)	282 (2.0)	44 (4.9)	282 (1.6)
Ohio	9 (1.8)	270 (4.1)	65 (5.1)	268 (1.5)	26 (4.8)	271 (4.4)
Oklahoma	17 (2.6)	270 (2.8)	46 (3.5)	267 (1.7)	37 (3.4)	267 (2.7)
Pennsylvania	8 (2.0)	267 (3.8)!	68 (3.2)	271 (1.9)	24 (2.9)	271 (2.7)
Rhode Island	8 (0.4)	246 (2.6)	49 (1.0)	266 (1.1)	43 (0.9)	267 (1.5)
South Carolina	8 (1.7)	253 (5.4)!	33 (2.8)	260 (2.4)	59 (2.9)	262 (1.6)
Tennessee	8 (1.9)	248 (5.1)!	32 (3.6)	261 (2.4)	60 (3.9)	258 (2.0)
Texas	10 (2.2)	265 (3.4)!	52 (3.6)	263 (2.0)	38 (3.4)	266 (2.5)
Utah	19 (2.0)	272 (2.4)	53 (2.2)	275 (1.3)	28 (1.9)	272 (1.3)
Virginia	12 (2.3)	262 (3.7)	50 (3.1)	269 (1.5)	38 (2.9)	267 (1.7)
West Virginia	10 (2.4)	258 (3.1)!	50 (4.2)	257 (1.4)	40 (3.8)	261 (1.7)
Wisconsin	10 (2.5)	280 (5.7)!	59 (5.1)	278 (2.4)	32 (4.6)	278 (1.8)
Wyoming	17 (2.5)	276 (1.7)	59 (3.4)	276 (1.2)	24 (3.2)	269 (1.8)
TERRITORIES						
Guam	4 (0.3)	*** (***)	68 (0.9)	233 (1.5)	28 (0.9)	237 (1.8)
Virgin Islands	27 (0.8)	218 (2.4)	42 (1.2)	218 (1.7)	31 (0.9)	228 (1.4)

TABLE A.35 | **Teachers' Reports on the Amount of Mathematics Homework Assigned Each Day**

PUBLIC SCHOOLS	Grade 4 - 1992									
	None		15 Minutes		30 Minutes		45 Minutes		An Hour or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	6 (1.4)	220 (2.7)!	53 (2.1)	220 (1.5)	36 (2.6)	215 (1.8)	4 (0.9)	200 (4.7)!	1 (0.4)	*** (***)
Northeast	2 (2.0)	*** (***)	50 (6.2)	224 (4.7)	44 (5.7)	220 (3.1)	3 (1.4)	*** (***)	1 (1.1)	*** (***)
Southeast	4 (1.1)	*** (***)	41 (3.0)	208 (2.8)	50 (3.5)	208 (2.8)	3 (1.2)	*** (***)	1 (0.9)	*** (***)
Central	13 (4.4)	226 (3.9)!	53 (3.8)	224 (2.2)	28 (7.0)	224 (4.2)!	4 (1.9)	*** (***)	1 (0.9)	*** (***)
West	5 (2.5)	*** (***)	65 (3.6)	222 (2.6)	24 (3.3)	210 (4.2)	4 (2.4)	199 (4.4)!	1 (0.9)	*** (***)
STATES										
Alabama	1 (0.3)	*** (***)	37 (3.6)	207 (2.3)	54 (3.5)	209 (2.0)	5 (1.6)	205 (4.2)!	3 (1.0)	197 (6.5)!
Arizona	8 (1.6)	211 (4.3)!	60 (2.8)	216 (1.4)	28 (2.5)	210 (2.1)	3 (1.3)	209 (8.6)!	1 (0.5)	*** (***)
Arkansas	9 (2.0)	213 (3.4)!	54 (3.3)	209 (1.3)	33 (3.3)	209 (1.5)	4 (1.6)	210 (5.0)!	0 (0.0)	*** (***)
California	4 (1.2)	206 (6.3)!	46 (3.5)	212 (2.2)	42 (2.8)	205 (2.6)	6 (1.7)	201 (4.7)!	2 (0.8)	*** (***)
Colorado	11 (1.7)	219 (2.7)	53 (3.0)	222 (1.5)	30 (2.7)	219 (2.1)	5 (1.2)	207 (3.2)!	1 (0.5)	*** (***)
Connecticut	6 (2.4)	231 (3.6)!	51 (4.0)	231 (1.4)	36 (3.1)	226 (2.6)	6 (1.5)	215 (7.1)!	2 (1.1)	*** (***)
Delaware	3 (0.4)	*** (***)	55 (1.2)	216 (1.2)	41 (1.1)	219 (1.7)	0 (0.0)	*** (***)	1 (0.2)	*** (***)
Dist. Columbia	0 (0.0)	*** (***)	17 (0.9)	190 (1.8)	60 (1.2)	194 (1.2)	18 (0.8)	184 (2.2)	5 (0.4)	187 (3.1)
Florida	2 (0.8)	*** (***)	41 (3.1)	214 (1.8)	47 (3.4)	212 (1.8)	7 (1.6)	209 (3.7)!	3 (0.9)	*** (***)
Georgia	1 (0.4)	*** (***)	47 (3.4)	216 (2.1)	46 (3.3)	212 (2.2)	5 (1.3)	204 (5.4)!	2 (0.6)	*** (***)
Hawaii	1 (0.4)	*** (***)	24 (2.4)	209 (2.7)	60 (3.0)	216 (1.6)	12 (2.1)	210 (2.7)	4 (1.2)	208 (5.3)!
Idaho	24 (2.4)	220 (1.4)	58 (3.6)	221 (1.3)	17 (3.0)	219 (2.1)	0 (0.4)	*** (***)	0 (0.3)	*** (***)
Indiana	8 (2.0)	219 (1.9)!	59 (3.4)	220 (1.6)	32 (3.4)	218 (2.2)	0 (0.2)	*** (***)	1 (0.6)	*** (***)
Iowa	18 (3.0)	230 (1.9)	63 (4.3)	230 (1.3)	18 (2.9)	225 (1.9)	0 (0.4)	*** (***)	0 (0.0)	*** (***)
Kentucky	8 (2.1)	210 (3.2)!	52 (3.7)	214 (1.7)	36 (3.8)	214 (1.9)	4 (1.2)	207 (6.6)!	1 (0.8)	*** (***)
Louisiana	1 (0.9)	*** (***)	44 (3.8)	207 (1.9)	47 (3.6)	203 (2.0)	7 (1.7)	181 (6.9)!	0 (0.3)	*** (***)
Maine	5 (1.7)	233 (5.8)!	62 (3.7)	230 (1.5)	31 (3.5)	231 (1.1)	2 (0.8)	*** (***)	1 (0.6)	*** (***)
Maryland	0 (0.3)	*** (***)	41 (3.5)	218 (2.2)	53 (3.5)	218 (2.0)	4 (1.1)	211 (7.5)!	1 (0.6)	*** (***)
Massachusetts	4 (1.4)	229 (5.9)!	49 (4.2)	229 (1.7)	44 (4.0)	225 (2.4)	2 (0.6)	*** (***)	1 (0.7)	*** (***)
Michigan	15 (2.0)	222 (2.5)	53 (3.6)	222 (2.3)	29 (3.3)	211 (3.8)	2 (0.8)	*** (***)	1 (0.5)	*** (***)
Minnesota	15 (2.8)	227 (3.2)	61 (3.6)	227 (1.4)	24 (2.9)	228 (2.3)	0 (0.3)	*** (***)	0 (0.0)	*** (***)
Mississippi	2 (0.9)	*** (***)	43 (3.4)	200 (2.2)	50 (3.4)	200 (1.7)	3 (1.3)	200 (4.8)!	2 (1.1)	*** (***)
Missouri	11 (2.0)	225 (3.6)	45 (3.0)	226 (1.8)	40 (3.4)	218 (2.4)	2 (0.8)	*** (***)	2 (1.1)	*** (***)
Nebraska	21 (3.4)	226 (2.4)	49 (3.6)	223 (1.8)	28 (3.4)	227 (2.6)	0 (0.2)	*** (***)	2 (0.9)	*** (***)
New Hampshire	8 (1.7)	229 (3.9)!	61 (3.3)	229 (1.5)	29 (3.2)	230 (2.0)	1 (1.2)	*** (***)	1 (0.4)	*** (***)
New Jersey	0 (0.0)	*** (***)	44 (4.2)	232 (2.1)	52 (4.3)	224 (2.5)	3 (1.0)	222 (9.2)!	1 (0.4)	*** (***)
New Mexico	9 (2.1)	210 (3.6)!	45 (3.7)	214 (2.0)	42 (3.3)	210 (2.2)	3 (1.1)	*** (***)	1 (0.3)	*** (***)
New York	1 (0.5)	*** (***)	41 (3.5)	222 (2.1)	51 (3.6)	214 (1.9)	6 (1.5)	216 (6.0)!	2 (0.6)	*** (***)
North Carolina	2 (0.8)	*** (***)	44 (2.8)	213 (1.7)	51 (2.9)	211 (1.3)	2 (0.8)	*** (***)	1 (0.7)	*** (***)
North Dakota	10 (2.5)	230 (1.9)!	47 (4.3)	227 (1.4)	40 (3.8)	229 (1.5)	2 (1.0)	*** (***)	0 (0.5)	*** (***)
Ohio	3 (0.9)	226 (6.6)!	60 (3.5)	220 (1.5)	36 (3.3)	213 (1.8)	1 (0.8)	*** (***)	0 (0.2)	*** (***)
Oklahoma	16 (2.6)	219 (2.2)	45 (3.6)	222 (1.5)	33 (3.3)	217 (1.7)	5 (1.5)	213 (2.7)!	1 (0.8)	*** (***)
Pennsylvania	1 (0.4)	*** (***)	53 (3.6)	225 (1.7)	44 (3.6)	221 (2.2)	2 (0.8)	*** (***)	0 (0.3)	*** (***)
Rhode Island	2 (0.9)	*** (***)	52 (3.4)	214 (1.9)	41 (3.3)	214 (2.6)	3 (1.1)	217(11.0)!	1 (0.7)	*** (***)
South Carolina	1 (0.5)	*** (***)	48 (3.6)	211 (1.4)	48 (3.9)	212 (1.7)	2 (0.5)	*** (***)	2 (0.7)	*** (***)
Tennessee	6 (1.6)	208 (4.4)!	35 (3.2)	212 (2.2)	49 (3.0)	209 (1.7)	7 (1.7)	212 (3.2)!	3 (1.0)	198 (5.3)!
Texas	7 (2.3)	217 (4.3)!	52 (3.6)	220 (2.0)	35 (2.9)	217 (2.6)	4 (1.0)	198 (5.8)!	3 (0.8)	201 (7.6)!
Utah	18 (2.6)	219 (2.2)	54 (2.9)	223 (1.3)	25 (3.0)	225 (2.0)	2 (0.8)	*** (***)	0 (0.0)	*** (***)
Virginia	0 (0.4)	*** (***)	51 (2.7)	221 (1.7)	46 (2.9)	219 (2.4)	3 (0.9)	209 (5.3)!	0 (0.0)	*** (***)
West Virginia	12 (1.9)	211 (3.1)	60 (3.2)	213 (1.5)	28 (3.6)	215 (1.7)	0 (0.2)	*** (***)	0 (0.2)	*** (***)
Wisconsin	10 (2.4)	235 (2.3)!	57 (3.5)	230 (1.5)	32 (3.0)	224 (2.0)	1 (0.4)	*** (***)	0 (0.0)	*** (***)
Wyoming	23 (2.9)	223 (1.9)	58 (3.5)	225 (1.2)	17 (2.6)	225 (1.8)	2 (0.8)	*** (***)	0 (0.0)	*** (***)
TERRITORY										
Guam	1 (0.1)	*** (***)	28 (1.1)	187 (1.6)	56 (1.0)	193 (1.2)	9 (0.5)	195 (2.5)	6 (0.7)	195 (3.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.35 | **Teachers' Reports on the Amount of Mathematics Homework Assigned Each Day (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992									
	None		15 Minutes		30 Minutes		45 Minutes		An Hour or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	3 (0.7)	232 (4.1)‼	29 (2.1)	262 (1.8)	48 (2.6)	267 (1.5)	15 (2.0)	282 (3.8)	4 (0.9)	286 (5.4)‼
Northeast	1 (0.5)	*** (***)	29 (5.0)	264 (5.4)‼	59 (6.2)	264 (3.6)	9 (4.7)	306 (7.8)‼	2 (0.8)	*** (***)
Southeast	3 (1.5)	*** (***)	27 (3.7)	253 (2.2)	51 (5.7)	262 (1.3)	14 (4.6)	272 (7.9)‼	4 (1.6)	282 (6.8)‼
Central	2 (1.9)	*** (***)	36 (5.9)	267 (2.8)‼	43 (4.6)	278 (3.1)	15 (3.5)	288 (5.9)‼	3 (1.7)	*** (***)
West	4 (1.5)	*** (***)	25 (2.7)	261 (3.7)	43 (3.6)	267 (3.0)	22 (3.2)	277 (4.9)	6 (2.2)	290 (8.1)‼
STATES										
Alabama	3 (1.1)	248 (7.4)‼	24 (3.9)<	246 (3.2)	56 (3.2)>	251 (2.6)	13 (2.7)	264 (6.1)‼	4 (1.5)	262(17.6)‼
Arizona	5 (2.0)	258 (5.0)‼	32 (2.8)	254 (2.1)	47 (3.3)	265 (2.1)	12 (2.0)	280 (3.3)	5 (1.3)	286 (7.8)‼
Arkansas	4 (1.4)	237 (6.4)‼	30 (3.0)	251 (2.5)	51 (2.9)	257 (1.7)	13 (1.7)	264 (4.7)	2 (0.7)	*** (***)
California	2 (0.6)	*** (***)	29 (2.7)	253 (2.5)	50 (2.9)	260 (2.5)	13 (1.9)	283 (3.7)	6 (1.6)	275 (5.5)‼
Colorado	2 (0.7)	*** (***)	25 (2.8)<	265 (2.7)	53 (3.1)	271 (1.7)	15 (2.0)	278 (3.9)	5 (1.1)	290 (4.5)‼
Connecticut	1 (0.2)	*** (***)	26 (2.9)	260 (2.6)	55 (2.8)	276 (1.7)	15 (2.1)	286 (7.5)	4 (1.0)	291 (5.2)‼
Delaware	2 (0.4)	*** (***)	29 (0.9)«	250 (1.7)	51 (1.0)»	264 (1.2)	12 (0.9)	279 (3.4)«	6 (0.4)	287 (2.7)
Dist. Columbia	0 (0.1)«	*** (***)	21 (1.0)«	233 (2.9)>	52 (1.3)»	228 (1.5)«	17 (0.8)	246 (2.1)	10 (0.6)»	248 (2.8)
Florida	4 (1.0)	233 (5.9)‼	30 (2.7)	251 (2.3)	49 (2.9)	261 (2.0)	11 (1.7)	276 (4.4)	6 (1.3)	280 (6.3)‼
Georgia	4 (0.8)	233 (4.5)	31 (2.8)	250 (2.3)	49 (3.1)	260 (1.8)	13 (1.7)	274 (3.6)	2 (0.6)	*** (***)
Hawaii	3 (0.4)	*** (***)	19 (0.7)	242 (2.0)	50 (0.9)	257 (0.9)»	19 (0.7)	265 (1.7)	9 (0.6)	283 (2.8)
Idaho	6 (1.0)	252 (3.8)‼	33 (2.1)«	269 (1.5)	47 (2.7)	278 (1.1)>	13 (2.2)	284 (3.4)	1 (0.2)	*** (***)
Indiana	1 (0.7)	*** (***)	33 (2.7)	262 (1.5)	55 (2.5)	270 (2.0)	9 (1.4)	292 (4.9)	2 (0.8)	*** (***)
Iowa	2 (0.9)	*** (***)	28 (3.4)	275 (2.1)	58 (3.8)	283 (1.4)	11 (2.5)	301 (5.4)‼	1 (1.0)	*** (***)
Kentucky	3 (0.8)	229 (4.9)‼	33 (3.5)	254 (2.0)	46 (3.1)	265 (1.7)	13 (2.6)	275 (4.6)	5 (1.4)	289 (5.9)‼
Louisiana	2 (0.9)	*** (***)	38 (3.5)	250 (2.1)	52 (3.6)>	250 (2.5)	7 (1.3)	252 (8.2)	2 (0.8)	*** (***)
Maine[1]	1 (0.6)	*** (***)	26 (3.3)	270 (2.0)	60 (3.4)	280 (1.6)	10 (2.1)	291 (3.1)‼	2 (0.8)	*** (***)
Maryland	0 (0.2)	*** (***)	30 (2.7)	252 (2.6)	57 (2.6)>	268 (2.1)	11 (1.7)	290 (4.0)	2 (0.9)	*** (***)
Massachusetts[1]	1 (0.3)	*** (***)	15 (2.3)	261 (3.6)	58 (3.2)	270 (1.8)	20 (2.4)	288 (3.9)	6 (1.7)	277 (4.6)‼
Michigan	1 (0.4)	*** (***)	29 (3.0)<	264 (2.4)	49 (3.4)	267 (2.7)	15 (2.8)	275 (5.9)	7 (1.2)>	263 (5.0)
Minnesota	2 (1.0)	*** (***)	27 (3.9)<	276 (2.3)	57 (3.7)>	281 (1.5)>	11 (2.5)	295 (4.3)‼	2 (0.8)	*** (***)
Mississippi[1]	3 (1.5)	*** (***)	31 (3.4)	241 (2.7)	49 (3.7)	246 (2.0)	11 (2.2)	257 (5.1)	6 (2.0)	251 (8.9)‼
Missouri[1]	3 (1.0)	245 (8.3)‼	27 (3.1)	264 (1.9)	52 (3.9)	270 (1.6)	14 (2.3)	287 (4.0)	4 (0.9)	295 (5.3)‼
Nebraska	1 (0.3)	*** (***)	34 (3.1)	268 (2.4)	50 (3.6)	279 (1.4)	13 (2.6)	295 (3.6)‼»	2 (0.8)	*** (***)
New Hampshire	1 (0.8)	*** (***)	26 (3.1)	267 (1.6)	60 (2.8)	278 (1.5)	11 (1.5)	297 (3.9)	2 (0.9)	*** (***)
New Jersey	0 (0.2)	*** (***)	25 (3.3)	267 (3.5)	55 (3.4)	274 (2.5)	15 (2.4)	278 (5.5)	4 (1.6)	246 (9.3)‼
New Mexico	3 (0.8)	233 (3.8)‼	33 (3.0)	252 (1.8)	44 (2.6)	261 (1.2)»	17 (2.3)	267 (2.5)	3 (0.6)«	299 (4.3)‼»
New York	0 (0.5)	*** (***)	26 (3.2)<	259 (3.8)	59 (2.9)	266 (3.3)	11 (1.9)	279 (5.7)	3 (0.9)	*** (***)
North Carolina	3 (0.7)	226 (6.5)‼	31 (2.9)	247 (2.2)	50 (3.3)	260 (1.9)	15 (2.3)	273 (4.2)	2 (0.6)	*** (***)
North Dakota	2 (0.9)	*** (***)	20 (2.9)«	278 (1.9)	60 (3.7)	283 (1.3)	15 (2.2)	285 (4.0)	3 (0.8)	*** (***)
Ohio	2 (0.7)	*** (***)	31 (4.7)	264 (4.6)	53 (4.3)	268 (2.1)	11 (1.7)	284 (6.1)	3 (0.8)	296 (6.5)‼
Oklahoma	4 (1.2)	244 (6.7)‼	24 (3.5)	261 (2.2)	50 (3.3)	269 (1.7)>	15 (2.5)	275 (3.0)	6 (1.7)	276 (8.9)‼
Pennsylvania	0 (0.1)	*** (***)	33 (3.1)	259 (2.4)	60 (2.9)>	274 (2.0)	6 (1.0)	298 (4.3)>	1 (0.5)	*** (***)
Rhode Island	2 (0.2)	*** (***)	18 (0.8)«	247 (1.9)	59 (1.1)»	266 (1.0)>	15 (0.8)<	279 (2.4)	6 (0.4)»	288 (2.1)»
South Carolina[1]	2 (0.5)	*** (***)	38 (3.1)	249 (1.9)	50 (3.4)	263 (1.9)	9 (1.5)	287 (5.5)	1 (0.4)	*** (***)
Tennessee[1]	1 (0.5)	*** (***)	29 (3.5)	254 (2.4)	55 (3.5)	257 (1.8)	11 (2.2)	275 (3.8)‼	3 (0.9)	279 (9.3)‼
Texas	3 (0.6)	231 (4.2)	32 (3.3)<	255 (1.8)	48 (3.0)	265 (2.3)	13 (2.0)	277 (3.9)	5 (1.1)	299 (6.3)‼
Utah[1]	2 (0.5)	*** (***)	29 (2.3)	264 (1.9)	52 (2.4)	277 (1.3)	14 (1.7)	283 (2.4)	2 (0.8)	295 (3.3)‼
Virginia	2 (0.8)	233 (4.5)‼	32 (2.6)	253 (1.6)	53 (2.6)>	271 (1.6)	9 (1.2)	295 (3.7)	3 (0.8)	298(11.7)‼
West Virginia	5 (1.1)	236 (2.7)‼<	52 (3.1)	253 (1.1)	39 (3.2)	267 (2.2)	4 (1.1)	280 (6.4)‼	1 (0.4)	*** (***)
Wisconsin	1 (0.5)	*** (***)	34 (3.9)	271 (2.1)	57 (4.3)	281 (2.2)	7 (1.7)	290 (6.2)‼	1 (0.5)	*** (***)
Wyoming	2 (1.3)	*** (***)	42 (2.7)	271 (1.3)	43 (2.8)	277 (1.2)	11 (1.8)	282 (2.4)	2 (1.1)	*** (***)
TERRITORIES										
Guam	3 (0.3)«	*** (***)	32 (0.9)«	228 (1.9)	38 (1.1)	234 (1.5)	7 (0.8)	254 (4.8)	19 (1.1)»	246 (2.0)
Virgin Islands	1 (0.2)«	*** (***)	19 (0.8)«	216 (1.5)	46 (1.2)»	219 (1.7)	20 (0.9)<	232 (2.1)>	14 (0.9)»	218 (4.1)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.36 | **Students' Reports on the Amount of Time Spent on Mathematics Homework Each Day**

PUBLIC SCHOOLS	Grade 4 - 1992									
	None		15 Minutes		30 Minutes		45 Minutes		An Hour or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	7 (0.7)	221 (2.4)	39 (1.1)	220 (1.2)	29 (0.8)	221 (1.1)	12 (0.5)	217 (1.8)	12 (0.7)	204 (1.8)
Northeast	3 (0.5)	*** (***)	45 (3.5)	226 (3.0)	30 (2.7)	229 (3.1)	12 (1.2)	216 (3.9)	11 (1.4)	205 (4.6)
Southeast	5 (0.6)	198 (4.2)	37 (2.0)	211 (2.2)	30 (0.8)	214 (2.4)	12 (1.0)	209 (2.4)	17 (1.6)	199 (3.0)
Central	11 (1.3)	229 (3.5)	36 (1.9)	224 (2.8)	26 (1.5)	223 (2.3)	15 (0.8)	222 (2.9)	12 (1.8)	210 (3.6)
West	8 (1.8)	225 (3.7)!	41 (1.7)	219 (2.2)	30 (1.4)	220 (1.4)	10 (0.9)	217 (3.6)	11 (0.9)	203 (3.0)
STATES										
Alabama	4 (0.4)	201 (4.9)	36 (1.2)	210 (2.2)	28 (0.8)	211 (1.9)	13 (0.7)	207 (2.5)	19 (0.8)	198 (1.7)
Arizona	9 (0.9)	218 (2.9)	39 (1.1)	218 (1.2)	28 (1.0)	215 (1.3)	12 (0.7)	210 (2.4)	12 (0.8)	204 (2.7)
Arkansas	7 (0.8)	212 (3.2)	34 (1.1)	211 (1.3)	27 (0.9)	213 (1.7)	15 (0.8)	207 (1.9)	16 (0.9)	199 (1.9)
California	5 (0.6)	209 (5.3)	40 (1.1)	211 (2.1)	29 (1.0)	210 (1.9)	14 (0.8)	207 (2.8)	13 (0.7)	196 (2.8)
Colorado	9 (0.7)	224 (2.5)	36 (1.0)	223 (1.3)	27 (1.0)	223 (1.3)	13 (0.5)	220 (1.9)	15 (0.8)	210 (1.5)
Connecticut	4 (0.5)	228 (5.2)	45 (1.4)	231 (1.5)	29 (1.2)	226 (1.5)	13 (0.7)	221 (2.3)	9 (0.7)	209 (2.5)
Delaware	5 (0.8)	211 (4.3)	46 (1.2)	218 (1.2)	28 (1.1)	223 (1.3)	10 (0.7)	213 (1.9)	11 (0.5)	205 (3.1)
Dist. Columbia	3 (0.3)	176 (3.6)	38 (1.2)	192 (1.1)	27 (1.2)	199 (1.4)	12 (0.7)	194 (2.3)	19 (0.8)	183 (1.6)
Florida	4 (0.6)	207 (3.7)	41 (1.3)	216 (2.0)	29 (1.1)	214 (1.6)	13 (0.7)	211 (2.7)	13 (0.7)	201 (2.4)
Georgia	4 (0.5)	220 (4.2)	42 (1.2)	215 (1.8)	28 (0.8)	219 (1.6)	12 (0.7)	213 (2.3)	14 (0.8)	204 (1.9)
Hawaii	2 (0.4)	193 (6.5)	32 (1.1)	211 (2.1)	27 (1.0)	220 (1.6)	17 (0.8)	219 (1.6)	21 (0.9)	209 (1.7)
Idaho	16 (1.0)	228 (1.3)	36 (1.1)	223 (1.4)	25 (0.9)	219 (1.2)	11 (0.7)	218 (1.9)	11 (0.8)	209 (2.4)
Indiana	8 (0.7)	232 (3.1)	37 (1.2)	220 (1.4)	30 (0.9)	223 (1.2)	13 (0.8)	218 (1.8)	13 (0.7)	207 (1.5)
Iowa	11 (0.9)	234 (2.2)	36 (1.0)	233 (1.6)	29 (0.9)	228 (1.3)	12 (0.7)	229 (2.0)	12 (0.8)	218 (2.0)
Kentucky	7 (0.7)	216 (3.2)	35 (1.1)	217 (1.5)	29 (0.9)	216 (1.4)	13 (0.9)	214 (1.9)	16 (0.9)	205 (1.6)
Louisiana	4 (0.6)	209 (5.7)	46 (1.3)	206 (1.6)	24 (0.8)	206 (1.6)	11 (0.7)	203 (2.3)	14 (0.9)	191 (2.1)
Maine	8 (1.2)	230 (2.5)	38 (1.2)	235 (1.4)	30 (1.2)	231 (1.4)	13 (0.9)	231 (2.3)	11 (0.8)	220 (2.9)
Maryland	3 (0.3)	198 (6.6)	45 (1.2)	220 (1.6)	27 (1.0)	222 (1.7)	12 (0.7)	213 (2.9)	13 (0.6)	200 (1.9)
Massachusetts	4 (0.6)	224 (5.2)	45 (1.3)	230 (1.4)	30 (1.0)	226 (1.5)	12 (0.8)	221 (2.1)	10 (0.6)	212 (2.4)
Michigan	9 (0.8)	229 (3.6)	37 (1.4)	221 (2.2)	26 (1.0)	223 (1.8)	13 (0.6)	218 (2.1)	15 (0.9)	203 (2.5)
Minnesota	12 (1.0)	235 (2.5)	37 (1.4)	230 (1.3)	28 (1.1)	229 (1.4)	12 (0.7)	224 (2.5)	12 (1.0)	217 (2.2)
Mississippi	4 (0.4)	195 (4.5)	38 (1.3)	201 (1.5)	27 (0.9)	204 (1.5)	13 (0.7)	203 (2.3)	18 (0.9)	194 (1.6)
Missouri	10 (1.1)	230 (3.2)	36 (1.1)	224 (1.4)	29 (1.1)	222 (1.6)	12 (0.7)	220 (2.0)	13 (0.8)	208 (2.2)
Nebraska	15 (1.3)	234 (2.1)	33 (1.4)	227 (1.9)	27 (1.0)	224 (1.7)	13 (0.8)	222 (1.8)	12 (0.9)	213 (2.4)
New Hampshire	5 (0.8)	231 (3.0)	41 (1.5)	233 (1.5)	30 (1.0)	229 (1.4)	12 (0.7)	227 (2.6)	11 (0.9)	217 (1.9)
New Jersey	2 (0.3)	*** (***)	50 (1.4)	230 (1.6)	27 (1.0)	228 (1.9)	11 (0.7)	223 (2.6)	10 (0.7)	212 (2.7)
New Mexico	8 (0.9)	216 (3.1)	33 (1.5)	215 (1.9)	28 (1.0)	214 (1.9)	15 (0.8)	212 (2.7)	16 (0.7)	202 (2.5)
New York	4 (0.6)	227 (4.8)	43 (1.7)	221 (1.6)	27 (1.0)	220 (1.6)	13 (1.0)	211 (2.8)	13 (0.9)	205 (2.8)
North Carolina	4 (0.8)	210 (5.6)!	40 (1.2)	215 (1.3)	28 (0.8)	217 (1.6)	13 (0.7)	209 (1.9)	14 (0.8)	198 (1.9)
North Dakota	10 (0.9)	239 (2.3)	34 (1.2)	230 (1.2)	29 (1.0)	228 (1.3)	14 (0.8)	228 (1.5)	12 (1.0)	214 (2.2)
Ohio	5 (0.6)	222 (3.7)	40 (0.9)	220 (1.8)	29 (0.9)	222 (1.2)	12 (0.7)	217 (1.9)	14 (0.9)	205 (2.2)
Oklahoma	13 (0.8)	228 (2.0)	32 (1.2)	221 (1.4)	26 (0.9)	221 (1.5)	14 (0.6)	214 (1.4)	15 (1.0)	211 (1.8)
Pennsylvania	2 (0.4)	215 (5.4)	50 (1.6)	228 (1.7)	28 (1.1)	224 (1.5)	10 (0.7)	215 (2.2)	10 (0.7)	207 (2.2)
Rhode Island	4 (0.5)	199 (4.3)	47 (1.4)	219 (1.7)	28 (1.0)	214 (2.0)	10 (0.7)	215 (2.4)	12 (0.8)	203 (2.7)
South Carolina	3 (0.3)	204 (6.0)	47 (1.3)	213 (1.4)	25 (1.1)	217 (1.5)	12 (0.6)	208 (2.5)	13 (0.8)	199 (1.8)
Tennessee	4 (0.5)	210 (3.9)	34 (1.1)	211 (1.8)	32 (1.0)	213 (1.5)	14 (0.8)	209 (2.1)	16 (0.8)	203 (1.9)
Texas	7 (0.9)	217 (3.5)	39 (1.3)	221 (1.6)	28 (1.1)	217 (1.7)	13 (0.8)	216 (2.3)	13 (0.9)	209 (2.2)
Utah	13 (1.1)	227 (2.0)	39 (1.1)	227 (1.2)	25 (1.1)	221 (1.6)	11 (0.7)	220 (2.1)	12 (0.7)	214 (2.3)
Virginia	3 (0.4)	216 (5.3)	43 (1.5)	223 (1.4)	29 (1.0)	223 (1.9)	12 (0.6)	217 (2.7)	13 (0.8)	208 (2.0)
West Virginia	8 (0.6)	222 (2.9)	35 (1.3)	217 (1.5)	29 (0.9)	215 (1.2)	12 (0.7)	211 (1.8)	15 (0.8)	204 (1.7)
Wisconsin	7 (0.7)	231 (2.9)	38 (1.2)	230 (1.3)	28 (1.0)	229 (1.6)	14 (0.7)	230 (1.8)	13 (0.7)	216 (2.1)
Wyoming	14 (1.0)	231 (1.6)	36 (1.2)	226 (1.3)	25 (0.9)	224 (1.2)	13 (0.8)	223 (1.9)	12 (0.8)	215 (2.2)
TERRITORY										
Guam	4 (0.5)	178 (4.8)	34 (1.3)	192 (1.5)	27 (1.2)	199 (1.7)	14 (0.8)	192 (2.3)	21 (1.0)	185 (2.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.36 | **Students' Reports on the Amount of Time Spent on Mathematics Homework Each Day (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992									
	None		15 Minutes		30 Minutes		45 Minutes		An Hour or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	8 (0.4)	253 (2.4)	28 (0.8)	268 (1.4)	35 (0.7)	268 (1.3)	16 (0.6)	269 (1.7)	13 (0.7)	265 (2.0)
Northeast	7 (0.9)	255 (5.9)	33 (2.5)	267 (3.6)	36 (1.5)	271 (4.5)	15 (1.3)	276 (3.6)	8 (1.3)	265 (6.3)
Southeast	9 (1.1)	245 (4.1)	25 (0.9)	261 (3.0)	34 (1.4)	261 (1.9)	17 (0.9)	260 (2.8)	14 (1.4)	254 (2.9)
Central	6 (0.7)	261 (5.2)	32 (1.5)	278 (2.6)	38 (1.4)	272 (2.8)	15 (1.5)	274 (3.2)	10 (0.8)	270 (3.2)
West	9 (0.8)	255 (4.2)	22 (1.5)	266 (2.1)	33 (1.0)	269 (2.3)	17 (1.0)	269 (4.3)	18 (1.6)	270 (3.5)
STATES										
Alabama	8 (0.8)	246 (2.7)	26 (1.2)	254 (2.1)	33 (1.0)	253 (2.0)	16 (0.9)	251 (2.7)	16 (0.9)	246 (2.8)
Arizona	9 (0.9)	259 (3.0)	26 (1.4)	266 (1.6) >	32 (1.1)	264 (1.6)	18 (0.8)	268 (2.0)	15 (1.7)	264 (2.5)
Arkansas	9 (0.9)	250 (2.3)	30 (0.9)	259 (1.5)	30 (1.1)	257 (1.6)	17 (0.7)	256 (2.5)	14 (0.9)	249 (2.4)
California	7 (0.6)	249 (3.1)	25 (1.3)	258 (2.2)	38 (1.1)	263 (2.0)	16 (1.0)	263 (2.6)	13 (0.8)	265 (3.2)
Colorado	8 (0.6)	258 (3.3)	26 (1.0)	274 (1.7)	34 (1.1) >	272 (1.5)	17 (0.8)	276 (1.7) >	14 (0.9)	269 (2.1)
Connecticut	5 (0.7)	254 (4.1)	33 (1.1)	275 (1.6)	40 (1.0)	273 (1.3)	13 (0.8)	283 (2.1) >	8 (0.8)	264 (4.0)
Delaware	7 (0.6)	248 (2.9)	36 (1.4)	263 (1.7)	35 (1.1)	265 (1.4)	14 (0.8)	262 (2.9)	8 (0.7)	259 (3.1)
Dist. Columbia	10 (0.8)	225 (3.3)	27 (0.9)	237 (1.5)	32 (1.0)	237 (1.5)	16 (1.0)	234 (1.8)	15 (0.8)	231 (2.2)
Florida	10 (1.0)	250 (2.6)	28 (1.2)	261 (2.1)	32 (0.9)	260 (1.8)	15 (0.7)	260 (2.2)	15 (0.8) »	260 (2.9)
Georgia	8 (0.6)	246 (3.0)	26 (1.1)	259 (1.8)	35 (1.0) >	259 (1.5)	16 (1.0)	263 (2.1)	14 (0.8)	260 (2.4)
Hawaii	7 (0.6)	239 (3.1)	24 (0.8)	250 (1.6)	33 (1.0)	260 (1.3) >	16 (1.0)	264 (1.9)	19 (0.9)	262 (1.9) >
Idaho	12 (0.7)	272 (2.0)	24 (0.7) <	277 (1.2)	31 (1.0)	274 (1.2)	17 (0.8) >	275 (1.7)	15 (0.8)	273 (2.3)
Indiana	7 (0.8)	260 (3.5)	31 (1.3)	270 (1.4)	36 (1.3)	271 (1.6)	16 (0.8)	269 (2.3)	10 (0.7)	270 (2.8)
Iowa	6 (0.6)	271 (5.1)	32 (1.2)	285 (1.3)	36 (1.1)	283 (1.2)	16 (0.9)	285 (1.9) >	9 (0.6)	279 (1.9) >
Kentucky	11 (0.7)	251 (2.4)	28 (1.2)	261 (1.6)	31 (1.1)	265 (1.4) >	16 (0.9)	264 (2.3) >	14 (0.8)	260 (2.3) >
Louisiana	8 (0.7)	252 (3.0)	30 (1.2)	254 (2.0)	32 (1.1)	250 (2.4)	15 (0.8)	248 (2.3)	15 (0.8)	239 (2.7)
Maine[1]	5 (0.6)	260 (5.1)	29 (1.3)	276 (1.6)	40 (1.0)	281 (1.2)	17 (0.8)	279 (2.1)	9 (0.7)	278 (3.2)
Maryland	5 (0.8)	251 (4.3)	34 (1.3)	263 (1.8)	40 (1.2)	269 (1.6)	12 (0.8)	268 (2.7)	8 (0.8)	256 (3.3)
Massachusetts[1]	4 (0.5)	248 (3.8)	30 (1.4)	270 (1.6)	42 (1.1)	273 (1.4)	16 (0.9)	278 (1.8)	9 (0.9)	273 (3.7)
Michigan	8 (0.7)	257 (3.0)	25 (1.1)	270 (2.1)	36 (1.1) >	269 (1.9)	17 (0.8)	269 (2.4)	14 (0.9)	259 (2.5)
Minnesota	7 (0.8)	277 (2.8)	28 (1.4) <	283 (1.4) >	36 (1.2) »	284 (1.3) »	16 (0.9)	281 (2.2)	12 (1.0)	278 (2.4)
Mississippi[1]	7 (1.0)	241 (3.3)	26 (1.2)	248 (1.7)	34 (1.2)	248 (1.4)	17 (1.0)	241 (2.3)	17 (1.0)	243 (2.6)
Missouri[1]	7 (0.5)	261 (2.9)	27 (1.3)	273 (1.7)	36 (1.0)	271 (1.6)	16 (0.8)	272 (2.1)	14 (1.0)	268 (2.5)
Nebraska	6 (0.6)	271 (3.1)	25 (1.4)	276 (2.0)	37 (1.1)	280 (1.5)	20 (1.0) >	276 (2.2)	12 (1.1)	275 (2.2)
New Hampshire	4 (0.6)	264 (4.3)	34 (1.0)	276 (1.4)	39 (1.2)	279 (1.4)	15 (0.7)	281 (2.1)	8 (0.7)	279 (2.9)
New Jersey	4 (0.5)	258 (5.2)	34 (1.6)	275 (1.5)	38 (1.3)	273 (1.8)	15 (1.1)	273 (3.0)	9 (0.6)	258 (3.4)
New Mexico	11 (0.9)	253 (2.4)	25 (1.0)	261 (1.3)	33 (1.0) >	257 (1.0)	17 (0.9)	261 (1.8)	15 (1.0)	263 (2.2) >
New York	4 (0.5)	248 (6.6)	42 (1.9)	268 (1.7)	36 (1.3)	270 (2.4)	11 (1.1)	265 (3.5)	7 (1.0)	247 (5.7)
North Carolina	7 (0.7)	244 (2.8)	29 (1.3)	257 (1.7) >	35 (1.2)	262 (1.5) >	17 (1.0)	261 (2.1) >	12 (0.8)	254 (2.7)
North Dakota	6 (0.6) <	283 (2.8)	24 (1.4) <	287 (2.0)	36 (1.4)	283 (1.3)	20 (1.3) >	281 (2.0)	14 (1.1)	277 (2.2)
Ohio	8 (0.8)	248 (2.3) <	31 (2.2)	270 (1.8)	36 (1.3)	272 (1.7)	16 (1.4)	269 (2.3)	10 (0.7)	262 (4.5)
Oklahoma	9 (0.9)	263 (2.9)	22 (1.2)	269 (1.7)	30 (1.1)	268 (1.7)	20 (1.0)	270 (1.8)	19 (1.1)	264 (2.3)
Pennsylvania	5 (0.6)	251 (3.6)	37 (1.4)	271 (1.5)	38 (1.2)	273 (1.8)	14 (0.7) >	275 (2.9) >	6 (0.8)	261 (4.4)
Rhode Island	4 (0.4) <	247 (3.3)	34 (1.5)	266 (1.6) >	40 (1.0)	266 (1.5)	13 (0.8)	267 (2.4)	9 (0.7)	268 (2.8) >
South Carolina[1]	7 (0.6)	254 (2.4)	32 (1.0)	260 (1.5)	36 (0.9)	262 (1.4)	14 (0.7)	259 (2.7)	11 (0.7)	259 (2.3)
Tennessee[1]	7 (1.0)	251 (3.7)	26 (1.2)	260 (1.9)	36 (1.2)	260 (1.5)	18 (0.9)	260 (2.5)	13 (0.9)	251 (3.2)
Texas	9 (0.8)	252 (2.9)	23 (1.1)	264 (1.7)	30 (0.9)	265 (1.7)	19 (1.0)	268 (2.4) »	18 (1.1)	265 (2.6)
Utah[1]	10 (0.7)	269 (1.9)	28 (1.0)	277 (1.1)	32 (0.9)	272 (1.2)	16 (0.7)	275 (1.7)	14 (0.8)	275 (2.1)
Virginia	6 (0.5)	247 (3.2)	29 (1.1)	267 (1.5)	39 (1.0)	269 (1.3)	15 (0.9)	273 (2.5)	11 (0.8)	268 (3.1)
West Virginia	15 (1.3)	253 (1.9)	27 (1.1)	262 (1.1) >	31 (1.1)	260 (1.3)	16 (0.9)	258 (2.0)	10 (0.8)	254 (2.0)
Wisconsin	8 (0.8)	271 (2.6)	33 (1.4)	280 (1.7)	36 (1.2)	279 (1.7)	14 (0.8)	279 (2.4)	9 (0.7)	266 (3.3)
Wyoming	11 (0.9)	267 (2.3)	30 (1.1)	279 (1.2)	31 (0.9)	275 (1.3)	16 (0.9)	273 (1.5)	13 (0.8)	268 (2.1)
TERRITORIES										
Guam	10 (0.9)	226 (3.9)	22 (1.0)	233 (2.0)	29 (1.4)	239 (2.0)	14 (1.0)	240 (3.0)	25 (1.2)	237 (2.0)
Virgin Islands	8 (0.8)	221 (2.8)	32 (1.1)	222 (1.7)	29 (1.3)	227 (1.6)	14 (1.1)	221 (2.8)	18 (1.0)	216 (1.8)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.37 | **Teachers' Reports on the Instructional Emphasis Placed on Numbers and Operations**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Numbers and Operations Proficiency	Percentage of Students	Numbers and Operations Proficiency	Percentage of Students	Numbers and Operations Proficiency
NATION	92 (1.3)	214 (1.3)	8 (1.3)	215 (3.1)	0 (0.1)	*** (***)
Northeast	86 (3.4)	218 (3.4)	14 (3.4)	220 (4.5)!	0 (0.0)	*** (***)
Southeast	92 (2.9)	204 (2.0)	7 (2.9)	209 (4.6)!	0 (0.4)	*** (***)
Central	95 (1.4)	221 (2.2)	5 (1.4)	*** (***)	0 (0.0)	*** (***)
West	93 (2.2)	214 (2.6)	7 (2.2)	214 (8.5)!	0 (0.0)	*** (***)
STATES						
Alabama	95 (1.8)	203 (1.8)	5 (1.8)	213 (6.1)!	0 (0.0)	*** (***)
Arizona	88 (2.1)	211 (1.4)	11 (2.0)	206 (3.7)	1 (0.5)	*** (***)
Arkansas	95 (1.5)	206 (1.2)	5 (1.5)	205 (5.4)!	0 (0.0)	*** (***)
California	87 (1.9)	205 (1.8)	12 (1.9)	204 (5.6)	0 (0.2)	*** (***)
Colorado	86 (2.4)	216 (1.3)	14 (2.4)	215 (3.2)	0 (0.0)	*** (***)
Connecticut	88 (2.0)	224 (1.7)	12 (2.0)	226 (3.9)	1 (0.4)	*** (***)
Delaware	89 (0.5)	215 (1.1)	11 (0.5)	214 (1.7)	0 (0.0)	*** (***)
Dist. Columbia	84 (0.7)	190 (1.1)	15 (0.7)	184 (2.2)	1 (0.1)	*** (***)
Florida	88 (2.3)	209 (1.5)	12 (2.3)	207 (3.0)!	0 (0.0)	*** (***)
Georgia	93 (1.3)	210 (1.3)	7 (1.3)	215 (5.5)!	0 (0.0)	*** (***)
Hawaii	89 (1.7)	210 (1.6)	11 (1.7)	214 (4.6)	0 (0.0)	*** (***)
Idaho	90 (2.2)	216 (1.6)	10 (2.2)	217 (3.4)!	0 (0.0)	*** (***)
Indiana	89 (2.3)	214 (1.4)	11 (2.3)	221 (3.2)!	0 (0.0)	*** (***)
Iowa	91 (2.1)	227 (1.4)	9 (2.1)	231 (4.6)!	0 (0.0)	*** (***)
Kentucky	91 (1.9)	211 (1.2)	9 (1.9)	213 (5.9)!	0 (0.0)	*** (***)
Louisiana	90 (1.7)	200 (1.8)	10 (1.6)	196 (2.8)	0 (0.3)	*** (***)
Maine	81 (2.4)	226 (1.5)	18 (2.5)	231 (3.2)	1 (0.5)	*** (***)
Maryland	86 (2.0)	214 (1.7)	13 (1.9)	225 (3.1)	1 (0.6)	*** (***)
Massachusetts	90 (2.6)	225 (1.5)	10 (2.6)	227 (4.0)!	0 (0.0)	*** (***)
Michigan	88 (2.3)	216 (2.1)	12 (2.3)	214 (5.5)	0 (0.4)	*** (***)
Minnesota	90 (2.1)	224 (1.4)	10 (2.1)	232 (3.2)!	0 (0.0)	*** (***)
Mississippi	96 (1.3)	198 (1.6)	4 (1.3)	199 (4.2)!	0 (0.0)	*** (***)
Missouri	91 (1.8)	218 (1.7)	9 (1.8)	219 (5.0)!	0 (0.0)	*** (***)
Nebraska	91 (2.1)	220 (1.6)	9 (2.1)	236 (5.5)!	0 (0.0)	*** (***)
New Hampshire	92 (1.7)	226 (1.3)	8 (1.5)	227 (5.0)!	1 (0.7)	*** (***)
New Jersey	90 (2.7)	225 (1.5)	10 (2.6)	237 (5.7)!	1 (0.5)	*** (***)
New Mexico	92 (2.3)	207 (1.5)	8 (2.3)	207 (8.3)!	0 (0.0)	*** (***)
New York	91 (2.0)	215 (1.5)	9 (2.0)	217 (5.0)!	0 (0.0)	*** (***)
North Carolina	91 (1.7)	209 (1.2)	9 (1.5)	205 (3.6)	0 (0.4)	*** (***)
North Dakota	89 (2.9)	225 (0.9)	11 (2.9)	222 (2.8)!	0 (0.0)	*** (***)
Ohio	92 (1.7)	214 (1.3)	8 (1.6)	211 (4.4)!	0 (0.2)	*** (***)
Oklahoma	94 (1.5)	217 (1.2)	6 (1.5)	216 (4.3)!	0 (0.0)	*** (***)
Pennsylvania	95 (1.3)	221 (1.7)	5 (1.3)	218 (5.8)!	0 (0.0)	*** (***)
Rhode Island	95 (1.2)	212 (1.8)	4 (1.1)	208 (7.4)!	1 (0.5)	*** (***)
South Carolina	93 (1.7)	208 (1.2)	7 (1.7)	205 (5.6)!	0 (0.0)	*** (***)
Tennessee	93 (1.9)	207 (1.6)	7 (1.9)	210 (4.4)!	0 (0.0)	*** (***)
Texas	89 (1.7)	214 (1.5)	11 (1.7)	220 (4.4)	0 (0.0)	*** (***)
Utah	94 (1.4)	220 (1.2)	6 (1.4)	218 (5.6)!	0 (0.0)	*** (***)
Virginia	95 (1.1)	217 (1.7)	4 (1.0)	201 (5.6)!	0 (0.3)	*** (***)
West Virginia	93 (1.9)	210 (1.3)	7 (1.9)	203 (3.7)!	0 (0.0)	*** (***)
Wisconsin	87 (2.3)	225 (1.5)	13 (2.3)	232 (3.9)	0 (0.0)	*** (***)
Wyoming	94 (1.6)	222 (1.2)	6 (1.6)	216 (3.7)!	0 (0.0)	*** (***)
TERRITORY						
Guam	86 (0.9)	190 (1.2)	12 (0.8)	174 (3.9)	2 (0.3)	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.37 | **Teachers' Reports on the Instructional Emphasis Placed on Numbers and Operations (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Numbers and Operations Proficiency	Percentage of Students	Numbers and Operations Proficiency	Percentage of Students	Numbers and Operations Proficiency
NATION	76 (1.9)	269 (1.2)	21 (1.8)	276 (2.0)	4 (0.8)	283 (6.9)!
Northeast	79 (4.3)	272 (3.8)	18 (3.9)	264 (2.8)!	4 (1.3)	*** (***)
Southeast	83 (4.6)	265 (1.4)	14 (3.7)	269 (4.3)!	3 (1.9)	267(14.9)!
Central	69 (3.0)	275 (2.8)	26 (3.7)	285 (4.6)	5 (2.0)	*** (***)
West	72 (3.0)	268 (1.9)	25 (2.8)	278 (2.7)	3 (1.0)	*** (***)
STATES						
Alabama	79 (2.7)	257 (1.4)	20 (2.7)	264 (3.6)	1 (0.6)	*** (***)
Arizona	79 (2.3)	266 (1.5)	19 (2.1)	275 (3.0)	2 (0.8)	*** (***)
Arkansas	78 (3.1)	259 (1.5)	19 (2.8)	273 (3.0)	3 (0.9)	283 (4.1)!
California	67 (2.7)	262 (2.1)	28 (2.5)	266 (3.2)	5 (1.5)	289 (4.4)!
Colorado	69 (3.0)	271 (1.4)	28 (2.9)	276 (2.2)	3 (0.8)	297 (8.3)!
Connecticut	64 (3.2)	272 (1.6)	29 (2.9)	285 (2.6)	7 (1.5)	300 (7.3)!
Delaware	71 (0.8)	262 (1.1)	23 (0.7)	275 (1.8)	6 (0.5)	295 (3.3)
Dist. Columbia	59 (1.2)	240 (1.2)	36 (1.1)	249 (1.9)	5 (0.6)	243 (5.8)
Florida	76 (2.8)	262 (1.4)	21 (2.6)	269 (2.9)	3 (0.7)	290 (8.1)!
Georgia	80 (3.0)	262 (1.2)	18 (3.0)	271 (3.6)	2 (0.7)	*** (***)
Hawaii	64 (0.8)	257 (0.9)	31 (0.8)	269 (1.9)	5 (0.3)	282 (4.5)
Idaho	69 (2.4)	274 (0.9)	29 (2.4)	282 (1.9)	2 (1.0)	*** (***)
Indiana	80 (2.8)	270 (1.6)	18 (2.4)	279 (3.8)	2 (0.8)	*** (***)
Iowa	73 (3.7)	284 (1.2)	22 (3.1)	286 (2.0)	5 (1.6)	307 (5.4)!
Kentucky	77 (2.8)	267 (1.4)	21 (2.6)	268 (2.5)	3 (0.9)	285 (9.6)!
Louisiana	81 (3.1)	256 (1.6)	17 (3.1)	264 (4.5)	2 (0.8)	*** (***)
Maine	67 (3.2)	278 (1.5)	30 (3.2)	283 (2.1)	3 (1.1)	285 (5.8)!
Maryland	57 (3.7)	262 (1.9)	36 (3.0)	274 (2.6)	7 (1.3)	305 (2.9)
Massachusetts	77 (2.6)	274 (1.4)	19 (2.3)	280 (3.0)	4 (1.2)	302 (6.8)!
Michigan	63 (3.8)	267 (1.7)	33 (3.6)	272 (3.5)	4 (1.1)	292 (8.5)!
Minnesota	74 (3.1)	279 (1.3)	21 (2.9)	288 (3.1)	5 (1.5)	303 (6.8)!
Mississippi	86 (2.7)	255 (1.3)	14 (2.7)	261 (4.1)	0 (0.0)	*** (***)
Missouri	68 (3.4)	270 (1.4)	30 (3.3)	277 (1.9)	2 (0.7)	*** (***)
Nebraska	71 (4.1)	278 (1.2)	27 (3.8)	281 (2.6)	3 (1.0)	*** (***)
New Hampshire	71 (2.9)	277 (1.1)	26 (2.5)	285 (2.3)	3 (1.1)	301 (5.2)!
New Jersey	65 (3.7)	271 (2.2)	32 (3.5)	283 (4.1)	3 (1.0)	295 (5.6)!
New Mexico	75 (2.5)	262 (1.1)	23 (2.5)	263 (2.7)	3 (0.6)	301 (6.5)!
New York	72 (3.3)	267 (2.5)	25 (3.1)	276 (3.5)	4 (1.0)	297(11.2)!
North Carolina	72 (2.7)	257 (1.6)	24 (2.7)	266 (2.5)	4 (0.8)	295 (6.2)!
North Dakota	73 (3.5)	285 (1.4)	22 (3.3)	288 (1.8)	5 (1.0)	290 (3.1)
Ohio	76 (3.1)	272 (2.0)	22 (3.2)	275 (3.8)	2 (0.5)	*** (***)
Oklahoma	82 (3.0)	269 (1.5)	17 (2.9)	280 (3.0)	1 (0.5)	*** (***)
Pennsylvania	72 (2.6)	270 (1.5)	25 (2.4)	278 (3.6)	3 (0.8)	306 (5.2)!
Rhode Island	65 (0.9)	265 (1.3)	26 (0.8)	274 (2.1)	9 (0.7)	286 (3.2)
South Carolina	70 (2.7)	261 (1.3)	25 (2.5)	274 (2.4)	5 (1.2)	295 (7.0)!
Tennessee	81 (3.0)	262 (1.6)	18 (2.9)	271 (2.9)	1 (0.5)	*** (***)
Texas	70 (2.7)	264 (1.7)	26 (2.6)	270 (2.9)	4 (1.0)	295 (5.9)!
Utah	82 (1.5)	274 (1.0)	17 (1.4)	283 (2.3)	2 (0.5)	*** (***)
Virginia	79 (2.4)	270 (1.2)	18 (2.3)	276 (3.4)	3 (0.6)	312 (4.3)
West Virginia	83 (2.6)	261 (1.3)	15 (2.5)	271 (3.1)	1 (0.3)	*** (***)
Wisconsin	66 (3.9)	279 (1.8)	31 (3.7)	281 (2.1)	3 (1.0)	293 (7.3)!
Wyoming	73 (2.9)	274 (1.1)	22 (2.4)	281 (2.1)	5 (1.4)	290 (9.0)!
TERRITORIES						
Guam	86 (0.7)	240 (1.3)	14 (0.7)	243 (4.6)	0 (0.0)	*** (***)
Virgin Islands	71 (1.1)	228 (1.0)	24 (1.0)	228 (1.6)	5 (0.5)	265 (4.4)

TABLE A.38 | **Teachers' Reports on the Instructional Emphasis Placed on Measurement**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Measurement Proficiency	Percentage of Students	Measurement Proficiency	Percentage of Students	Measurement Proficiency
NATION	14 (1.7)	217 (2.6)	80 (1.9)	223 (1.5)	6 (1.2)	221 (3.8)!
Northeast	11 (2.4)	212 (6.2)!	81 (3.8)	227 (3.3)	8 (3.3)	*** (***)
Southeast	23 (4.6)	215 (2.7)!	75 (4.7)	213 (2.9)	1 (0.7)	*** (***)
Central	6 (2.1)	238 (7.7)!	88 (1.9)	231 (2.8)	6 (2.1)	*** (***)
West	14 (3.3)	214 (4.7)!	77 (3.5)	224 (2.7)	10 (3.1)	216 (5.7)!
STATES						
Alabama	23 (3.2)	207 (2.8)	75 (3.3)	216 (2.1)	1 (0.8)	*** (***)
Arizona	8 (1.6)	219 (5.1)	83 (1.8)	219 (1.3)	8 (1.4)	221 (3.7)
Arkansas	12 (1.7)	209 (4.7)	84 (2.0)	217 (1.7)	3 (1.2)	205 (5.9)!
California	13 (2.2)	212 (4.4)	80 (2.5)	211 (2.0)	8 (1.7)	195 (6.7)!
Colorado	16 (2.3)	229 (3.4)	82 (2.2)	225 (1.3)	2 (0.7)	*** (***)
Connecticut	14 (2.6)	227 (4.0)	81 (2.5)	233 (1.4)	5 (1.3)	223 (5.1)!
Delaware	11 (0.6)	229 (2.8)	80 (0.8)	220 (1.1)	8 (0.6)	215 (4.4)
Dist. Columbia	35 (0.9)	193 (1.6)	63 (1.0)	192 (1.2)	2 (0.6)	*** (***)
Florida	19 (2.4)	224 (2.9)	78 (2.6)	218 (1.8)	3 (0.9)	194 (8.5)!
Georgia	24 (2.8)	219 (3.5)	74 (2.9)	218 (1.9)	1 (0.6)	*** (***)
Hawaii	17 (2.4)	221 (2.9)	81 (2.4)	215 (1.8)	2 (0.6)	*** (***)
Idaho	8 (1.8)	230 (2.9)!	87 (2.2)	227 (1.2)	4 (1.3)	227 (6.2)!
Indiana	12 (2.5)	226 (4.6)!	82 (2.8)	226 (1.5)	6 (1.6)	231 (3.8)!
Iowa	11 (2.2)	233 (3.0)!	85 (2.7)	235 (1.5)	4 (1.1)	230 (8.1)!
Kentucky	21 (3.3)	217 (2.4)	77 (3.4)	219 (1.5)	2 (1.1)	*** (***)
Louisiana	24 (3.0)	201 (3.9)	74 (3.0)	211 (1.9)	2 (0.8)	191(12.5)!
Maine	13 (2.3)	242 (3.2)	84 (2.6)	235 (1.5)	3 (1.2)	*** (***)
Maryland	18 (2.3)	226 (4.2)	78 (2.5)	221 (2.0)	4 (1.2)	224 (7.8)!
Massachusetts	15 (2.3)	227 (3.7)	81 (2.2)	231 (1.7)	3 (1.2)	220 (5.5)!
Michigan	18 (2.8)	224 (4.9)	76 (3.1)	226 (2.1)	6 (1.9)	221 (6.6)!
Minnesota	6 (1.7)	244 (4.2)!	87 (1.9)	233 (1.6)	7 (1.2)	224 (5.0)
Mississippi	24 (2.9)	204 (2.5)	74 (3.0)	206 (1.9)	2 (0.8)	*** (***)
Missouri	23 (3.0)	226 (4.6)	75 (2.9)	228 (1.9)	2 (0.7)	*** (***)
Nebraska	15 (2.9)	238 (3.8)	77 (3.4)	229 (1.9)	7 (1.8)	226 (4.1)!
New Hampshire	9 (2.0)	236 (4.0)!	85 (2.4)	235 (1.5)	6 (1.6)	231 (3.8)!
New Jersey	18 (2.9)	231 (4.4)	81 (3.0)	232 (2.1)	1 (0.6)	*** (***)
New Mexico	13 (2.4)	216 (3.6)	83 (2.7)	218 (1.8)	4 (1.1)	208 (3.8)!
New York	23 (2.4)	222 (3.6)	72 (2.5)	221 (1.9)	5 (1.1)	211 (8.7)!
North Carolina	18 (2.3)	214 (2.9)	78 (2.7)	217 (1.5)	4 (1.3)	215 (5.4)!
North Dakota	9 (2.4)	237 (3.2)!	82 (3.0)	234 (1.4)	9 (2.4)	235 (4.3)!
Ohio	12 (2.0)	215 (3.8)	82 (2.5)	224 (1.5)	6 (1.9)	218 (9.7)!
Oklahoma	9 (2.2)	221 (4.0)!	84 (2.6)	225 (1.3)	7 (1.6)	226 (3.0)!
Pennsylvania	13 (1.7)	232 (4.0)	81 (2.1)	228 (1.7)	6 (1.6)	230 (6.9)!
Rhode Island	8 (1.8)	216 (5.9)!	82 (2.3)	219 (2.0)	9 (1.8)	211 (3.8)!
South Carolina	38 (3.5)	219 (2.1)	61 (3.5)	218 (2.0)	0 (0.2)	*** (***)
Tennessee	17 (2.2)	217 (3.4)	80 (2.4)	213 (1.4)	3 (0.9)	212 (7.5)!
Texas	31 (3.0)	219 (2.3)	68 (2.9)	223 (2.2)	1 (0.7)	*** (***)
Utah	16 (2.2)	232 (2.7)	80 (2.6)	229 (1.1)	3 (1.1)	235 (6.1)!
Virginia	16 (2.3)	224 (3.8)	77 (2.5)	224 (1.6)	7 (1.5)	220 (5.8)!
West Virginia	21 (2.4)	228 (3.1)	75 (2.9)	221 (1.4)	4 (1.3)	220 (4.8)!
Wisconsin	14 (2.4)	234 (3.4)	81 (2.9)	234 (1.4)	5 (1.7)	232 (3.9)!
Wyoming	12 (2.2)	230 (3.4)	83 (2.4)	230 (1.3)	5 (1.6)	227 (6.5)!
TERRITORY						
Guam	24 (1.0)	194 (1.9)	66 (1.0)	192 (1.7)	10 (0.8)	181 (3.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.38 | **Teachers' Reports on the Instructional Emphasis Placed on Measurement (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Measurement Proficiency	Percentage of Students	Measurement Proficiency	Percentage of Students	Measurement Proficiency
NATION	16 (2.0)	255 (3.0)	69 (2.1)	265 (1.9)	15 (1.6)	281 (3.4)
Northeast	22 (5.5)	263 (4.6)[1]	62 (4.8)	264 (5.1)	16 (3.3)	277 (9.8)[1]
Southeast	17 (4.2)	244 (4.3)[1]	74 (4.9)	260 (2.5)	9 (2.6)	262 (5.4)[1]
Central	14 (3.8)	261 (3.6)[1]	82 (5.2)	273 (3.9)	25 (4.5)	282 (5.1)
West	13 (2.6)	254 (4.5)[1]	74 (3.1)	266 (3.6)	13 (3.0)	292 (6.9)[1]
STATES						
Alabama	30 (3.8)	232 (5.5)	58 (3.5)	247 (2.3)	12 (2.1)	269 (7.1)
Arizona	15 (2.4)	263 (4.1)	82 (2.9)»	261 (2.7)	23 (2.5)«	271 (4.6)
Arkansas	15 (2.6)	245 (4.2)	66 (3.5)	250 (1.6)	19 (2.2)	264 (4.5)
California	14 (2.1)	248 (4.7)	70 (2.4)»	257 (2.5)>	16 (1.8)<	282 (6.1)
Colorado	10 (1.7)	277 (4.0)>	66 (2.8)>	269 (1.9)>	25 (2.6)«	279 (3.8)
Connecticut	16 (2.0)<	265 (4.4)	68 (2.6)»	272 (2.1)>	17 (2.0)<	293 (6.6)
Delaware	13 (0.6)«	248 (3.1)	74 (0.7)»	255 (1.5)	13 (0.7)«	289 (3.6)»
Dist. Columbia	18 (0.9)«	222 (4.7)	76 (0.9)»	222 (1.6)	6 (0.8)«	261(11.0)
Florida	15 (2.3)	243 (5.4)	68 (2.9)»	254 (1.9)	17 (2.3)<	270 (5.2)
Georgia	28 (2.7)	243 (2.5)	62 (2.7)>	254 (2.8)	11 (1.9)<	271 (6.3)
Hawaii	12 (0.7)	251 (2.7)	75 (0.9)»	252 (1.5)	12 (0.6)«	276 (3.5)»
Idaho	10 (1.2)	271 (5.0)	71 (2.4)»	276 (1.9)»	19 (2.6)«	281 (2.5)
Indiana	10 (2.1)	264 (4.0)	72 (3.1)»	266 (2.1)	18 (2.1)«	282 (6.0)
Iowa	11 (2.6)	285 (4.6)[1]	70 (3.5)>	284 (1.9)»	19 (2.9)	301 (3.7)>
Kentucky	20 (3.2)	259 (3.7)	65 (3.5)>	259 (1.7)»	15 (2.6)<	264 (4.9)
Louisiana	12 (1.9)	242 (5.5)	71 (3.8)>	241 (2.3)	17 (3.3)<	249 (5.2)[1]
Maine[1]	20 (3.7)	278 (3.6)	72 (3.6)	280 (2.3)	8 (1.5)	300 (4.6)
Maryland	15 (2.3)	247 (6.2)	64 (2.5)»	259 (2.2)>	21 (2.4)«	286 (5.6)
Massachusetts[1]	14 (2.0)	278 (4.6)	63 (3.1)	264 (2.1)	23 (2.6)	280 (4.0)
Michigan	20 (3.0)	262 (5.0)	65 (3.0)>	264 (2.5)	15 (2.1)«	276 (5.9)
Minnesota	13 (2.5)	279 (5.4)[1]	65 (3.5)»	283 (2.1)»	22 (2.9)«	292 (3.4)»
Mississippi[1]	30 (3.9)	234 (3.7)	61 (3.9)	234 (2.5)	9 (2.0)	261 (7.0)[1]
Missouri[1]	11 (2.2)	267 (4.7)[1]	72 (2.3)	268 (1.7)	17 (1.9)	290 (4.4)
Nebraska	7 (2.0)	285 (4.6)[1]	73 (2.9)»	277 (2.0)	19 (2.7)«	287 (4.4)>
New Hampshire	10 (1.5)<	271 (3.2)	67 (3.2)»	278 (2.2)>	24 (2.8)«	288 (3.0)>
New Jersey	19 (3.2)	254 (4.3)	67 (3.5)»	267 (3.0)	14 (2.6)«	292 (5.9)
New Mexico	13 (1.7)	261 (3.5)>	69 (2.8)»	256 (1.7)	18 (2.5)«	266 (4.3)
New York	8 (1.6)	255(10.4)[1]	70 (2.9)»	260 (3.0)	21 (3.2)«	272 (6.7)
North Carolina	14 (2.1)	248 (4.9)	71 (2.7)»	251 (1.9)»	15 (1.9)«	272 (4.3)>
North Dakota	15 (3.0)	287 (4.1)[1]	77 (3.7)»	283 (2.0)	8 (2.4)«	307 (7.3)[1]>
Ohio	14 (2.6)	260 (7.0)	68 (3.6)»	265 (3.2)	18 (2.5)<	285 (4.7)
Oklahoma	17 (3.1)	271 (6.1)	67 (3.5)>	262 (2.4)	16 (2.8)«	279 (4.6)>
Pennsylvania	11 (2.3)	257 (7.2)[1]	64 (3.0)»	267 (2.0)	25 (2.7)«	289 (4.0)
Rhode Island	12 (0.8)	252 (3.7)	66 (0.9)»	259 (1.6)	22 (0.8)«	280 (2.7)»
South Carolina[1]	40 (3.4)	248 (2.2)	52 (3.1)	256 (2.4)	8 (1.3)	302 (5.0)
Tennessee[1]	23 (3.2)	248 (3.4)	66 (3.3)	252 (2.4)	11 (1.6)	271 (6.7)
Texas	23 (3.2)	250 (3.6)	63 (3.2)	260 (2.0)>	13 (2.0)	284 (7.7)>
Utah[1]	9 (1.3)	287 (4.6)	65 (2.0)	272 (1.9)	26 (1.7)	283 (2.3)
Virginia	6 (1.4)	261 (7.0)[1]	65 (2.8)»	260 (2.0)>	29 (2.6)<	277 (3.2)
West Virginia	12 (2.0)	255 (3.9)	72 (2.9)»	255 (1.8)	16 (2.3)«	266 (3.5)
Wisconsin	14 (3.3)	276 (9.3)[1]	74 (3.5)»	279 (2.2)>	12 (2.0)«	287 (4.8)
Wyoming	8 (1.4)	274 (3.7)	67 (2.3)»	274 (1.3)	25 (1.6)«	289 (2.7)»
TERRITORIES						
Guam	25 (1.0)	242 (2.9)	64 (1.1)»	226 (2.0)	11 (0.7)«	214 (3.8)«
Virgin Islands	9 (0.6)«	210 (4.8)	71 (0.8)»	209 (1.7)	19 (0.7)	216 (3.2)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.39 | **Teachers' Reports on the Instructional Emphasis Placed on Geometry**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Geometry Proficiency	Percentage of Students	Geometry Proficiency	Percentage of Students	Geometry Proficiency
NATION	6 (1.1)	212 (5.0)	72 (2.9)	221 (1.2)	22 (2.8)	217 (1.9)
Northeast	4 (2.4)	*** (***)	78 (3.3)	224 (3.3)	18 (2.3)	213 (3.8)
Southeast	12 (3.2)	210 (7.8)!	73 (4.3)	212 (2.3)	15 (4.7)	208 (3.7)!
Central	1 (0.7)	*** (***)	66 (8.5)	228 (1.7)	33 (8.5)	218 (2.9)!
West	8 (2.1)	211 (5.9)!	71 (4.0)	222 (2.1)	23 (3.9)	224 (3.7)!
STATES						
Alabama	10 (2.3)	205 (3.3)!	73 (3.5)	211 (1.7)	17 (3.1)	208 (3.1)
Arizona	2 (0.6)	*** (***)	60 (3.4)	221 (1.4)	38 (3.5)	217 (1.9)
Arkansas	6 (2.1)	205 (3.8)!	71 (3.1)	213 (1.4)	23 (3.1)	209 (3.1)
California	8 (1.6)	209 (4.3)!	69 (3.1)	215 (1.9)	23 (3.2)	208 (3.6)
Colorado	6 (1.6)	227 (4.6)!	78 (2.6)	228 (1.1)	16 (2.3)	221 (2.4)
Connecticut	9 (1.9)	237 (3.6)!	76 (2.4)	231 (1.7)	15 (2.1)	225 (3.4)
Delaware	8 (0.5)	232 (3.0)	67 (1.0)	221 (1.3)	25 (0.9)	211 (1.6)
Dist. Columbia	30 (0.7)	200 (1.3)	63 (0.8)	197 (1.2)	7 (0.7)	191 (4.1)
Florida	7 (1.6)	219 (3.5)!	73 (3.0)	217 (1.3)	19 (2.6)	211 (3.4)
Georgia	12 (2.5)	215 (3.8)!	76 (3.1)	217 (1.6)	12 (2.3)	209 (2.6)
Hawaii	12 (1.8)	227 (3.4)	76 (2.2)	218 (1.4)	11 (1.8)	207 (3.5)
Idaho	4 (1.4)	226 (3.9)!	67 (3.2)	226 (1.2)	29 (3.0)	226 (2.4)
Indiana	3 (1.0)	*** (***)	72 (2.6)	222 (1.4)	25 (2.3)	223 (2.0)
Iowa	3 (1.2)	237 (3.3)!	60 (3.8)	229 (1.5)	38 (3.6)	229 (2.0)
Kentucky	9 (2.1)	216 (3.8)!	75 (3.2)	215 (1.4)	16 (2.6)	210 (2.6)
Louisiana	10 (1.9)	207 (4.4)	77 (2.5)	208 (1.7)	13 (2.4)	196 (3.7)
Maine	8 (1.9)	237 (3.5)!	78 (3.0)	237 (1.1)	14 (2.7)	231 (2.1)
Maryland	10 (1.8)	227 (3.9)	80 (2.3)	221 (1.6)	9 (1.6)	209 (5.6)
Massachusetts	7 (2.1)	243 (3.9)!	67 (3.1)	230 (1.6)	26 (3.3)	224 (2.4)
Michigan	10 (2.2)	224 (4.6)!	68 (3.7)	222 (2.1)	22 (3.5)	222 (3.3)
Minnesota	4 (1.3)	237 (6.1)!	68 (3.5)	231 (1.4)	28 (3.6)	225 (2.3)
Mississippi	12 (2.5)	200 (3.2)!	77 (3.1)	204 (1.2)	11 (2.0)	191 (4.4)
Missouri	10 (2.6)	223 (6.8)!	72 (3.3)	224 (1.4)	18 (2.5)	226 (2.7)
Nebraska	4 (1.7)	248 (5.3)!	64 (3.7)	229 (1.7)	32 (3.7)	226 (1.5)
New Hampshire	4 (0.9)	234 (6.0)!	77 (2.8)	235 (1.2)	19 (2.8)	228 (2.6)
New Jersey	11 (2.2)	226 (4.7)!	79 (2.9)	227 (1.5)	10 (2.0)	227 (4.2)
New Mexico	6 (1.4)	220 (7.7)!	67 (3.7)	222 (1.5)	26 (3.4)	214 (2.3)
New York	6 (1.4)	210 (3.6)!	72 (2.8)	220 (1.3)	22 (2.6)	212 (2.5)
North Carolina	12 (2.1)	219 (3.4)	76 (2.7)	217 (1.6)	12 (2.2)	209 (2.3)
North Dakota	4 (1.1)	235 (4.0)!	64 (4.0)	229 (1.2)	32 (4.1)	229 (2.0)
Ohio	5 (1.5)	215 (6.7)!	70 (3.5)	223 (1.5)	25 (3.5)	216 (2.8)
Oklahoma	4 (1.6)	216 (4.2)!	65 (3.6)	221 (1.6)	31 (3.6)	220 (1.6)
Pennsylvania	4 (1.2)	229 (6.0)!	77 (2.7)	224 (1.4)	19 (2.5)	218 (2.7)
Rhode Island	2 (0.8)	*** (***)	64 (3.7)	218 (1.8)	34 (3.7)	214 (3.0)
South Carolina	22 (2.7)	213 (2.4)	74 (2.9)	216 (1.3)	5 (1.5)	207 (7.1)!
Tennessee	14 (2.3)	214 (2.6)	70 (3.2)	212 (1.9)	16 (2.5)	208 (2.7)
Texas	17 (2.9)	219 (2.1)	72 (3.1)	221 (1.8)	10 (2.0)	218 (5.1)!
Utah	9 (1.8)	232 (3.7)!	78 (2.4)	227 (1.1)	12 (2.2)	222 (2.5)
Virginia	8 (1.9)	229 (4.7)!	70 (2.5)	223 (1.6)	21 (2.2)	214 (2.1)
West Virginia	8 (2.3)	221 (4.0)!	70 (3.4)	217 (1.3)	22 (3.0)	214 (2.4)
Wisconsin	4 (1.0)	231 (7.0)!	69 (3.7)	230 (1.3)	27 (3.7)	224 (2.2)
Wyoming	3 (1.1)	230 (4.8)!	70 (3.3)	228 (1.5)	26 (3.0)	228 (2.0)
TERRITORY						
Guam	12 (0.8)	200 (2.0)	61 (1.1)	203 (1.3)	28 (1.0)	201 (3.0)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.39 | **Teachers' Reports on the Instructional Emphasis Placed on Geometry (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Geometry Proficiency	Percentage of Students	Geometry Proficiency	Percentage of Students	Geometry Proficiency
NATION	18 (2.6)	263 (2.3)	71 (2.7)	263 (1.4)	11 (1.4)	264 (4.4)
Northeast	21 (4.7)	265 (4.3)!	69 (4.7)	264 (3.7)	10 (4.2)	256(19.8)!
Southeast	15 (4.9)	259 (4.8)!	77 (4.5)	258 (1.9)	9 (2.9)	257 (6.4)!
Central	18 (2.9)	267 (6.0)	69 (3.6)	270 (2.6)	13 (2.6)	275 (6.3)!
West	17 (6.5)	261 (3.5)!	70 (7.1)	264 (2.9)	12 (2.4)	264 (5.4)!
STATES						
Alabama	30 (4.3)	242 (4.8)	60 (4.2)	247 (2.3)	9 (1.5)«	247 (5.1)
Arizona	14 (2.3)	265 (2.9)	65 (2.6)>	258 (1.3)	20 (2.1)«	259 (4.0)
Arkansas	14 (2.7)	250 (3.5)	64 (3.3)	250 (1.6)	23 (3.0)	253 (2.9)
California	16 (2.6)	264 (3.8)	67 (3.1)>	259 (2.2)	16 (1.6)	260 (4.4)
Colorado	14 (1.8)	273 (3.0)	71 (2.3)»	266 (1.4)	15 (1.9)«	276 (2.9)>
Connecticut	18 (1.9)	274 (2.5)	63 (2.0)>	265 (1.3)	19 (1.7)	275 (3.8)
Delaware	20 (0.8)	257 (3.2)	70 (1.0)»	256 (1.2)	11 (0.7)«	266 (4.9)
Dist. Columbia	24 (1.1)	236 (2.4)	67 (1.1)»	229 (1.7)	9 (0.9)«	248 (5.6)
Florida	13 (2.0)	259 (3.5)	66 (3.5)>	254 (1.1)	21 (2.8)	256 (4.1)
Georgia	24 (2.3)	250 (2.8)	62 (2.3)>	253 (2.0)	13 (2.0)	260 (4.4)
Hawaii	16 (0.8)	269 (2.5)	73 (0.9)»	256 (1.6)>	11 (0.5)«	245 (3.4)
Idaho	12 (1.7)	275 (1.9)	64 (2.6)>	271 (1.4)	24 (2.5)<	268 (1.9)
Indiana	14 (2.5)	269 (2.7)	71 (3.2)>	265 (1.6)	14 (2.2)«	268 (3.9)
Iowa	21 (3.8)	279 (2.5)	66 (3.9)	276 (1.2)>	13 (1.7)	283 (4.6)
Kentucky	22 (3.1)	262 (2.6)	67 (2.9)»	257 (1.1)	11 (2.3)<	244 (3.7)!
Louisiana	15 (2.9)	249 (5.3)	71 (3.3)>	244 (1.9)	14 (2.2)<	245 (4.0)
Maine[1]	20 (3.7)	276 (2.2)	65 (3.5)	275 (1.5)	15 (2.5)	267 (3.9)
Maryland	20 (3.0)	260 (3.4)	62 (3.1)>	259 (2.1)	18 (2.1)«	266 (5.0)
Massachusetts[1]	19 (2.8)	271 (3.4)	56 (3.0)	267 (2.0)	25 (3.0)	263 (2.8)
Michigan	21 (3.1)	261 (4.4)	64 (3.3)>	261 (2.1)	15 (3.0)<	265 (5.2)!
Minnesota	10 (2.1)	291 (3.9)!»	76 (3.0)»	274 (1.5)	14 (2.1)<	287 (4.2)
Mississippi[1]	25 (3.3)	241 (2.8)	65 (3.7)	238 (1.6)	10 (1.9)	241 (4.5)
Missouri[1]	32 (3.2)	267 (1.7)	59 (3.3)	265 (1.6)	9 (1.4)	281 (5.1)
Nebraska	12 (3.0)	274 (2.8)!	73 (4.1)>	274 (1.5)	15 (2.6)	275 (3.1)
New Hampshire	18 (2.0)«	278 (2.0)	64 (2.9)»	271 (1.1)	18 (2.3)	275 (3.1)
New Jersey	32 (3.6)	258 (2.6)	59 (4.0)>	267 (2.5)	9 (2.1)<	279 (4.6)!
New Mexico	21 (2.6)	262 (2.1)	64 (3.2)»	255 (1.1)	15 (2.2)«	256 (2.8)
New York	35 (3.2)	269 (3.2)	60 (3.3)	258 (2.9)	4 (1.4)	231 (7.2)!
North Carolina	14 (2.4)	252 (2.4)	69 (3.0)>	253 (1.6)>	17 (2.1)<	258 (3.0)
North Dakota	16 (2.3)	277 (1.9)	76 (3.0)»	276 (1.7)	8 (1.8)«	290 (3.2)!>
Ohio	19 (2.7)	264 (2.6)	71 (2.9)»	262 (1.7)	10 (1.6)«	266 (4.6)
Oklahoma	12 (2.1)	269 (3.6)	68 (3.6)	260 (1.6)	21 (3.0)	265 (3.2)
Pennsylvania	18 (2.8)	263 (3.7)	66 (2.7)»	263 (1.7)	16 (2.0)«	270 (4.5)
Rhode Island	16 (0.9)	260 (1.8)	67 (1.1)»	257 (1.3)	18 (0.8)«	268 (2.4)»
South Carolina[1]	40 (3.6)	252 (1.8)	53 (3.4)	256 (2.1)	7 (1.3)	286 (4.0)
Tennessee[1]	29 (3.5)	258 (2.6)	58 (3.6)	251 (2.0)	13 (2.1)	249 (7.3)
Texas	30 (3.3)	261 (3.0)	64 (3.2)>	262 (1.8)	6 (1.0)	276 (6.6)
Utah[1]	8 (1.1)	276 (3.2)	64 (2.2)	268 (1.6)	29 (2.1)	270 (1.9)
Virginia	12 (1.6)	266 (3.6)	63 (2.6)»	260 (1.6)	25 (2.4)	263 (2.7)
West Virginia	10 (1.8)	263 (2.7)	68 (2.6)»	253 (1.5)	22 (2.3)<	255 (2.7)
Wisconsin	22 (3.1)	274 (3.3)	67 (3.6)	273 (2.0)	12 (1.8)<	271 (4.6)
Wyoming	15 (2.1)	269 (2.4)	69 (2.2)»	270 (1.0)	16 (1.4)«	282 (2.4)>
TERRITORIES						
Guam	20 (0.9)	244 (2.8)<	54 (1.3)	243 (2.1)>	26 (1.1)	227 (2.2)
Virgin Islands	2 (0.4)«	*** (***)	67 (0.7)»	223 (1.2)<	31 (0.9)«	218 (2.3)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.40 | **Teachers' Reports on the Instructional Emphasis Placed on Data Analysis, Statistics, and Probability**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Data Analysis Proficiency	Percentage of Students	Data Analysis Proficiency	Percentage of Students	Data Analysis Proficiency
NATION	7 (1.2)	222 (4.2)	41 (2.8)	221 (2.1)	52 (2.8)	215 (1.4)
Northeast	6 (2.5)	*** (***)	46 (5.5)	227 (3.8)	48 (6.2)	214 (3.4)
Southeast	7 (2.6)	224(11.2)!	44 (5.3)	212 (3.6)	49 (4.7)	205 (2.5)
Central	1 (0.9)	*** (***)	28 (6.7)	227 (3.2)!	71 (6.5)	224 (2.3)
West	14 (2.7)	220 (5.2)	46 (4.4)	221 (4.0)	40 (4.8)	214 (2.8)
STATES						
Alabama	10 (1.7)	209 (4.0)	52 (3.5)	209 (2.5)	39 (3.7)	209 (2.5)
Arizona	7 (1.4)	218 (4.6)!	34 (3.0)	217 (2.0)	60 (3.0)	212 (1.5)
Arkansas	5 (1.6)	205 (3.9)!	39 (3.2)	210 (2.4)	56 (3.3)	212 (1.5)
California	7 (1.7)	210 (4.6)!	53 (3.9)	209 (2.3)	40 (3.9)	202 (2.4)
Colorado	5 (1.3)	219 (3.9)!	43 (3.2)	225 (2.0)	52 (3.6)	216 (1.9)
Connecticut	8 (1.7)	230 (4.5)!	41 (3.1)	229 (2.6)	52 (3.2)	224 (2.4)
Delaware	5 (0.5)	235 (5.1)	33 (0.9)	227 (2.3)	62 (0.8)	215 (1.6)
Dist. Columbia	19 (0.6)	193 (1.7)	46 (1.0)	189 (1.5)	35 (0.9)	186 (2.3)
Florida	8 (1.8)	221 (3.6)!	37 (3.3)	215 (2.7)	55 (3.4)	214 (1.8)
Georgia	6 (1.4)	220 (5.0)!	52 (4.2)	218 (2.3)	42 (3.7)	217 (1.7)
Hawaii	6 (1.4)	214 (4.5)!	53 (3.1)	213 (1.9)	40 (3.2)	211 (2.2)
Idaho	5 (1.6)	225 (3.7)!	37 (3.2)	220 (1.6)	59 (3.2)	219 (1.4)
Indiana	3 (1.3)	202 (8.7)!	34 (3.3)	226 (2.1)	63 (3.4)	220 (1.4)
Iowa	4 (1.5)	231 (4.1)!	40 (3.3)	231 (1.5)	56 (3.7)	229 (1.5)
Kentucky	11 (2.3)	222 (3.2)!	50 (3.5)	213 (1.8)	39 (3.6)	214 (2.7)
Louisiana	14 (2.2)	206 (3.6)	45 (3.8)	206 (3.1)	42 (3.7)	202 (2.2)
Maine	3 (1.0)	*** (***)	51 (4.1)	232 (1.5)	46 (4.3)	231 (2.0)
Maryland	11 (1.6)	226 (4.5)	52 (3.3)	222 (2.1)	37 (3.1)	215 (3.1)
Massachusetts	5 (2.0)	225 (4.4)!	46 (3.7)	232 (1.9)	49 (4.0)	223 (2.3)
Michigan	8 (1.8)	216 (6.3)!	46 (3.8)	216 (2.7)	46 (3.8)	221 (2.3)
Minnesota	4 (1.3)	226 (7.9)!	42 (3.0)	228 (2.8)	54 (3.2)	226 (1.5)
Mississippi	8 (1.9)	195 (4.2)!	41 (3.4)	201 (2.1)	51 (3.5)	197 (2.1)
Missouri	4 (1.4)	207 (8.1)!	38 (3.2)	227 (2.6)	58 (3.2)	223 (1.7)
Nebraska	3 (1.2)	*** (***)	41 (4.3)	228 (2.4)	57 (4.0)	223 (2.2)
New Hampshire	6 (1.6)	237 (4.8)!	35 (3.1)	229 (2.1)	59 (3.3)	228 (2.0)
New Jersey	8 (2.5)	222 (9.3)!	48 (3.8)	230 (2.2)	44 (4.3)	223 (2.4)
New Mexico	6 (1.8)	214 (7.8)!	33 (3.5)	216 (2.0)	61 (3.2)	213 (1.8)
New York	7 (1.9)	223 (6.8)!	57 (2.9)	222 (2.0)	36 (3.2)	218 (2.4)
North Carolina	6 (1.2)	221 (6.0)	53 (2.8)	215 (1.6)	41 (2.8)	213 (2.0)
North Dakota	4 (2.3)	227 (6.2)!	33 (3.1)	233 (2.9)	63 (3.7)	227 (1.2)
Ohio	4 (1.3)	219 (5.9)!	43 (3.6)	223 (2.2)	53 (3.6)	215 (1.8)
Oklahoma	5 (1.2)	220 (4.0)!	43 (3.2)	223 (1.5)	52 (3.5)	221 (2.2)
Pennsylvania	4 (1.1)	226 (7.3)!	42 (3.9)	228 (2.3)	53 (4.1)	219 (1.8)
Rhode Island	3 (1.0)	*** (***)	25 (2.8)	221 (3.0)	73 (2.9)	211 (2.0)
South Carolina	7 (1.7)	220 (4.1)!	44 (3.7)	211 (2.4)	49 (3.5)	211 (2.0)
Tennessee	5 (1.3)	202 (5.2)!	38 (3.0)	212 (2.6)	56 (2.8)	211 (1.8)
Texas	16 (2.3)	218 (2.4)	59 (3.3)	219 (2.4)	25 (3.2)	219 (2.5)
Utah	6 (1.3)	216 (3.3)!	39 (3.0)	223 (2.1)	55 (3.1)	222 (1.5)
Virginia	5 (1.1)	219 (5.1)!	37 (2.7)	230 (2.9)	59 (2.9)	220 (1.8)
West Virginia	4 (1.2)	213 (9.1)!	40 (3.5)	218 (1.7)	56 (3.7)	211 (1.7)
Wisconsin	4 (1.1)	231 (4.5)!	42 (3.4)	232 (2.1)	54 (3.7)	227 (1.6)
Wyoming	8 (1.8)	228 (3.1)!	45 (3.5)	225 (1.6)	47 (3.4)	223 (1.4)
TERRITORY						
Guam	10 (0.8)	191 (2.4)	47 (1.0)	191 (1.7)	42 (0.9)	188 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. In 1990, to determine the emphasis placed on Data Analysis, Statistics, and Probability, teacher responses were averaged across two topics: tables and graphs, and probability and statistics. In 1992, teachers were simply asked about the emphasis placed on Data Analysis, Statistics, and Probability. In both 1990 and 1992, at grade 4, the question specified the informal introduction of concepts. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.40 | **Teachers' Reports on the Instructional Emphasis Placed on Data Analysis, Statistics, and Probability (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Data Analysis Proficiency	Percentage of Students	Data Analysis Proficiency	Percentage of Students	Data Analysis Proficiency
NATION	11 (1.7)	273 (4.8)	59 (2.0)»	268 (1.7)	30 (2.0)«	268 (2.6)
Northeast	17 (5.8)	273(11.1)!	57 (5.3)	271 (4.9)	27 (5.2)	266 (7.4)!
Southeast	7 (1.7)	275 (6.9)!	64 (3.6)>	261 (2.1)	29 (2.8)<	260 (5.0)
Central	9 (2.6)	279(12.4)!	66 (3.5)»	273 (3.5)	26 (3.9)«	283 (4.1)>
West	11 (3.2)	270 (4.9)!	53 (3.9)	269 (2.6)	36 (3.6)	266 (4.7)
STATES						
Alabama	9 (2.2)	247 (6.8)!	67 (3.2)»	255 (2.2)	24 (2.8)«	242 (4.4)
Arizona	11 (2.6)	272 (3.7)!>	50 (3.7)»	266 (2.0)	40 (3.5)«	261 (3.4)
Arkansas	7 (2.0)	257 (4.6)!	44 (4.0)>	257 (2.5)	49 (4.0)<	252 (2.4)
California	10 (1.8)	255 (6.1)	64 (3.3)»	261 (3.0)	27 (3.1)«	258 (3.9)
Colorado	11 (1.8)	284 (4.5)>	57 (3.1)»	271 (1.9)	32 (3.1)«	272 (2.8)
Connecticut	13 (2.4)	279 (5.8)	50 (2.6)»	271 (2.3)	37 (3.0)«	277 (2.9)
Delaware	14 (0.5)	272 (3.3)	51 (0.9)»	261 (1.7)	34 (0.8)«	263 (2.6)
Dist. Columbia	29 (1.1)»	229 (4.4)>	55 (1.2)>	227 (1.4)»	16 (1.1)«	248 (5.1)
Florida	10 (1.7)	273 (4.9)>	60 (2.5)»	259 (1.9)	30 (2.7)«	254 (3.6)
Georgia	12 (2.0)	262 (4.2)	55 (2.5)>	259 (2.4)	33 (2.5)	257 (2.7)
Hawaii	8 (0.6)»	272 (5.6)	45 (0.9)»	254 (1.5)	47 (0.9)«	242 (2.0)
Idaho	4 (0.9)	283 (6.8)	58 (2.9)»	274 (1.7)	38 (2.8)«	273 (1.7)
Indiana	5 (1.4)	281 (4.2)!	63 (3.3)»	274 (2.2)	32 (3.2)«	271 (3.1)
Iowa	8 (2.0)>	290 (4.8)!	58 (4.3)>	283 (2.2)	34 (4.4)«	286 (2.8)>
Kentucky	15 (2.1)	278 (4.6)	61 (3.1)»	263 (1.9)	24 (3.0)«	254 (3.9)
Louisiana	14 (2.6)>	246 (6.4)	48 (3.8)	249 (3.1)	38 (3.6)«	247 (2.7)
Maine	15 (3.2)	285 (3.5)!	61 (3.9)	282 (1.8)	24 (3.1)	279 (3.7)
Maryland	19 (3.3)>	267 (4.3)	59 (3.5)»	266 (2.5)	22 (2.7)«	274 (4.9)
Massachusetts	8 (1.6)	280 (5.8)!	41 (3.1)	275 (3.0)	51 (3.4)	272 (2.4)
Michigan	16 (2.8)>	267 (4.8)	59 (3.1)»	269 (2.5)	25 (3.2)«	265 (4.0)
Minnesota	7 (1.6)	305 (7.1)!	58 (3.3)»	283 (1.9)	35 (3.4)«	280 (2.3)
Mississippi	7 (1.8)	250 (6.1)!	45 (3.6)	245 (2.8)	49 (4.0)	240 (2.5)
Missouri	10 (2.2)	272 (4.2)!	57 (3.2)	272 (1.8)	33 (3.6)	272 (3.0)
Nebraska	7 (1.9)	282 (5.1)!	54 (4.3)»	278 (2.6)	39 (4.2)«	279 (2.5)
New Hampshire	10 (2.1)	287 (3.6)!>	51 (3.1)»	281 (1.7)	39 (3.4)«	280 (2.4)
New Jersey	15 (3.0)	262 (6.4)!	62 (4.1)»	272 (3.2)	23 (3.4)«	273 (4.4)
New Mexico	12 (2.3)	263 (3.4)!	60 (3.0)»	260 (1.6)	27 (2.8)«	253 (2.6)
New York	14 (2.2)	286 (4.5)	70 (2.8)»	269 (3.4)	16 (2.3)«	248 (7.3)
North Carolina	10 (1.9)	265 (3.5)	55 (3.2)»	256 (1.9)	35 (3.2)«	257 (3.0)>
North Dakota	4 (1.9)	291 (3.5)!>	62 (3.8)»	285 (1.6)	33 (3.2)«	287 (2.1)
Ohio	10 (2.1)	278 (8.2)!	57 (3.7)»	268 (2.7)	32 (3.5)«	274 (3.9)
Oklahoma	4 (1.1)	278 (8.8)!	50 (3.4)»	268 (2.4)	47 (3.4)«	269 (2.2)
Pennsylvania	10 (2.3)>	280 (4.7)!	40 (2.8)»	270 (2.3)	51 (3.1)«	273 (2.6)
Rhode Island	12 (0.6)»	274 (5.0)	54 (1.2)»	263 (1.9)	34 (1.1)«	268 (1.6)»
South Carolina	11 (1.8)	271 (6.1)	54 (3.2)	257 (2.1)	35 (3.2)	260 (2.7)
Tennessee	6 (1.7)	264 (6.5)!	59 (4.0)	260 (1.7)	34 (3.7)	256 (3.7)
Texas	21 (3.0)	269 (4.7)	61 (3.3)»	263 (2.4)>	18 (2.2)«	261 (4.1)
Utah	4 (1.0)	284 (4.3)!	51 (2.5)	274 (1.6)	45 (2.5)	277 (1.8)
Virginia	6 (1.2)	273 (5.4)!	47 (2.7)»	265 (2.2)	47 (2.8)«	270 (2.4)»
West Virginia	5 (1.5)	267 (6.7)!	50 (3.1)»	260 (2.1)	46 (3.2)«	258 (2.6)
Wisconsin	18 (2.8)»	288 (4.1)	57 (4.6)>	279 (2.1)	24 (4.7)«	278 (4.8)!
Wyoming	7 (1.4)	274 (5.3)!	56 (2.8)»	276 (1.3)	37 (2.5)«	274 (2.2)
TERRITORIES						
Guam	10 (0.7)»	270 (3.8)>	52 (1.2)»	223 (2.8)	38 (1.1)«	207 (2.8)
Virgin Islands	13 (0.8)»	217 (5.3)<	47 (0.9)»	214 (2.6)»	40 (1.1)«	210 (2.9)>

TABLE A.41 | **Teachers' Reports on the Instructional Emphasis Placed on Algebra and Functions**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Algebra and Functions Proficiency	Percentage of Students	Algebra and Functions Proficiency	Percentage of Students	Algebra and Functions Proficiency
NATION	4 (1.1)	218 (4.3)!	32 (3.4)	216 (3.0)	65 (3.5)	215 (1.5)
Northeast	3 (1.7)	*** (***)	31 (4.6)	220 (4.6)!	66 (4.5)	220 (2.7)
Southeast	0 (0.3)	*** (***)	24 (2.9)	204 (5.1)	75 (2.9)	206 (2.5)
Central	0 (0.3)	*** (***)	27(11.2)	220 (6.2)!	72(11.2)	222 (2.9)
West	11 (3.5)	215 (3.6)!	44 (4.2)	218 (5.0)	45 (5.3)	215 (2.9)
STATES						
Alabama	3 (1.7)	209(18.0)!	36 (3.8)	205 (3.1)	61 (3.9)	203 (2.5)
Arizona	3 (0.9)	205 (7.4)!	32 (3.2)	219 (2.5)	65 (3.2)	211 (1.6)
Arkansas	1 (0.5)	*** (***)	14 (2.3)	211 (3.0)	85 (2.3)	206 (1.2)
California	9 (1.8)	205 (4.2)!	38 (3.3)	213 (3.2)	53 (3.3)	206 (2.3)
Colorado	3 (1.1)	223 (3.9)!	34 (3.1)	221 (2.8)	62 (3.2)	214 (1.9)
Connecticut	3 (1.2)	236 (8.1)!	34 (3.7)	227 (3.1)	63 (3.8)	226 (1.9)
Delaware	2 (0.4)	*** (***)	23 (0.7)	229 (3.1)	75 (0.8)	211 (1.6)
Dist. Columbia	12 (0.7)	199 (4.0)	39 (0.8)	187 (2.0)	49 (0.8)	191 (1.9)
Florida	3 (0.9)	221 (4.7)!	32 (2.8)	211 (2.4)	65 (2.7)	211 (2.4)
Georgia	3 (1.1)	225 (5.6)!	23 (2.5)	217 (3.5)	74 (2.3)	211 (2.9)
Hawaii	3 (1.0)	216 (4.8)!	38 (2.8)	211 (2.2)	59 (2.9)	210 (2.2)
Idaho	2 (0.9)	*** (***)	30 (3.1)	217 (2.1)	68 (3.3)	217 (1.7)
Indiana	1 (1.0)	*** (***)	20 (3.1)	219 (3.4)	79 (3.3)	217 (2.2)
Iowa	1 (0.8)	*** (***)	26 (2.8)	228 (2.2)	73 (2.9)	225 (1.6)
Kentucky	1 (0.7)	*** (***)	39 (3.2)	212 (2.4)	60 (3.3)	212 (1.8)
Louisiana	6 (1.3)	208 (5.4)!	46 (3.3)	205 (2.7)	48 (3.5)	196 (2.5)
Maine	4 (1.3)	233(10.2)!	27 (3.5)	229 (2.7)	69 (3.9)	227 (2.1)
Maryland	3 (0.8)	220 (7.3)!	27 (2.7)	218 (2.8)	70 (2.5)	216 (2.1)
Massachusetts	3 (1.1)	*** (***)	30 (3.9)	226 (3.3)	68 (4.1)	221 (2.0)
Michigan	6 (1.9)	212(10.2)!	46 (4.0)	215 (2.6)	48 (4.1)	218 (3.1)
Minnesota	3 (1.2)	236 (5.7)!	26 (3.4)	226 (2.6)	71 (3.8)	224 (1.5)
Mississippi	4 (1.7)	195 (6.4)!	32 (3.4)	197 (3.8)	64 (3.7)	193 (1.9)
Missouri	1 (0.5)	*** (***)	30 (3.5)	222 (2.8)	70 (3.6)	220 (1.4)
Nebraska	2 (1.0)	*** (***)	29 (3.0)	225 (2.6)	69 (3.1)	218 (2.2)
New Hampshire	2 (1.0)	*** (***)	23 (3.0)	229 (3.4)	75 (3.0)	226 (1.4)
New Jersey	5 (1.8)	223 (6.4)!	39 (4.5)	228 (3.7)	57 (4.4)	222 (2.5)
New Mexico	2 (1.2)	*** (***)	29 (2.9)	213 (2.8)	69 (3.2)	210 (2.0)
New York	5 (1.2)	213 (8.5)!	41 (2.8)	220 (2.9)	54 (3.1)	211 (2.3)
North Carolina	2 (0.6)	*** (***)	29 (2.8)	213 (2.3)	68 (2.8)	210 (1.9)
North Dakota	1 (0.5)	*** (***)	20 (3.7)	226 (2.9)	79 (3.7)	225 (1.5)
Ohio	5 (1.7)	228 (7.8)!	31 (3.6)	215 (2.7)	64 (4.0)	216 (2.0)
Oklahoma	5 (1.8)	212 (5.8)!	27 (3.4)	220 (3.0)	68 (3.6)	217 (1.5)
Pennsylvania	2 (0.9)	*** (***)	27 (3.0)	230 (3.1)	72 (3.1)	218 (1.7)
Rhode Island	2 (0.9)	*** (***)	22 (2.9)	218 (3.0)	77 (3.1)	210 (2.6)
South Carolina	2 (0.8)	*** (***)	22 (3.0)	204 (2.5)	75 (3.0)	208 (1.9)
Tennessee	3 (1.0)	206 (8.4)!	22 (2.5)	211 (3.0)	75 (2.5)	208 (1.9)
Texas	8 (2.0)	219 (4.1)!	48 (3.6)	221 (3.0)	44 (3.6)	213 (2.6)
Utah	6 (1.6)	226 (4.5)!	35 (3.1)	222 (2.0)	59 (3.6)	220 (1.6)
Virginia	4 (1.4)	224 (8.6)!	21 (2.2)	221 (3.3)	75 (2.8)	215 (1.9)
West Virginia	2 (0.9)	*** (***)	29 (3.2)	212 (2.9)	69 (3.1)	208 (2.1)
Wisconsin	3 (1.0)	227 (3.9)!	27 (2.8)	226 (2.4)	70 (3.0)	225 (1.7)
Wyoming	4 (1.1)	226 (3.3)!	30 (3.3)	221 (2.3)	66 (3.3)	222 (1.3)
TERRITORY						
Guam	8 (0.8)	187 (5.0)	36 (1.2)	193 (2.2)	57 (1.0)	193 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. At grade 4, the question specified the informal introduction of concepts. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.41 | **Teachers' Reports on the Instructional Emphasis Placed on Algebra and Functions (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Heavy Emphasis		Moderate Emphasis		Little or No Emphasis	
	Percentage of Students	Algebra and Functions Proficiency	Percentage of Students	Algebra and Functions Proficiency	Percentage of Students	Algebra and Functions Proficiency
NATION	46 (2.1)	282 (2.1)	41 (2.2)	259 (1.5)	13 (1.5)	241 (2.8)
Northeast	38 (3.2)	293 (4.6)	40 (4.0)	257 (3.2)	22 (3.9)	241 (4.7)
Southeast	49 (4.4)	273 (2.9)	42 (4.0)	255 (2.5)	9 (1.9)	237 (5.6)!
Central	43 (3.6)	288 (3.7)	48 (5.1)	265 (3.5)	9 (2.9)	250 (8.2)!
West	51 (4.4)	279 (3.7)	36 (3.6)	259 (2.2)	13 (2.8)	237 (4.7)!
STATES						
Alabama	42 (2.9)	268 (2.6)	45 (3.5)	247 (3.4)	13 (2.1)	227 (3.7)
Arizona	50 (3.1)	273 (2.2)	39 (3.2)	256 (2.5)	11 (1.7)	242 (3.5)
Arkansas	35 (3.1)	276 (2.6)	44 (3.3)	248 (2.1)	21 (2.6)	236 (2.6)
California	42 (2.6)	277 (2.7)	42 (2.4)	251 (3.2)	16 (1.8)	238 (2.7)
Colorado	53 (2.7)	280 (1.7)	41 (2.7)	260 (1.8)	7 (1.2)	251 (3.8)
Connecticut	40 (2.5)	290 (2.3)	42 (2.4)»	265 (2.1)	18 (2.0)	241 (3.4)
Delaware	41 (1.1)	285 (1.9)	40 (1.1)»	255 (1.1)	19 (1.0)«	232 (2.2)
Dist. Columbia	54 (1.2)»	250 (2.0)	37 (1.1)«	224 (2.4)	9 (0.6)	225 (4.5)
Florida	47 (2.3)	279 (1.8)	34 (2.3)	248 (1.8)	19 (2.2)<	238 (3.4)
Georgia	44 (2.7)	274 (2.1)	31 (2.4)	251 (2.9)	25 (2.0)	237 (2.2)
Hawaii	31 (0.8)	281 (2.1)	42 (0.9)»	252 (1.4)>	26 (0.8)«	235 (1.6)»
Idaho	54 (2.5)	284 (1.4)	39 (2.6)	268 (1.4)»	7 (1.1)«	238 (4.0)
Indiana	44 (2.7)	283 (2.1)	46 (2.9)>	258 (1.7)	10 (1.4)«	240 (4.6)
Iowa	55 (3.4)	288 (1.8)	38 (3.3)	274 (1.9)	7 (1.4)	250 (5.0)!
Kentucky	50 (3.0)	274 (2.4)	40 (3.0)	253 (1.7)	10 (1.9)	235 (4.6)
Louisiana	72 (3.6)>	253 (2.3)	25 (3.4)	247 (3.6)	3 (1.0)	220 (9.0)!
Maine[1]	46 (4.2)	285 (2.2)	40 (3.6)	270 (1.9)	14 (1.9)	251 (3.6)
Maryland	51 (2.5)	281 (2.7)	32 (2.3)	254 (2.7)	17 (1.9)	238 (4.3)
Massachusetts[1]	47 (2.7)	286 (2.3)	38 (3.1)	263 (2.2)	15 (1.6)	247 (3.5)
Michigan	47 (3.6)	279 (2.8)	43 (3.7)	257 (2.6)	10 (1.8)	245 (3.3)
Minnesota	54 (3.7)	291 (1.6)>	42 (3.9)	270 (1.8)	4 (1.4)	253 (7.0)!
Mississippi[1]	44 (3.4)	260 (2.5)	38 (3.3)	235 (2.1)	18 (2.4)	230 (3.2)
Missouri[1]	43 (3.0)	285 (2.0)	42 (3.2)	263 (2.0)	15 (2.2)	250 (2.5)
Nebraska	45 (3.5)	286 (2.3)	48 (3.6)	271 (2.0)	7 (1.5)	248 (5.5)!
New Hampshire	42 (2.9)	288 (1.7)	40 (2.5)»	268 (1.5)	18 (3.1)	257 (2.9)
New Jersey	47 (3.5)	284 (3.3)	39 (3.3)	267 (2.6)	14 (2.4)	247 (4.7)
New Mexico	49 (2.9)	267 (1.6)	44 (2.9)>	250 (2.0)	8 (1.2)«	242 (5.1)
New York	48 (3.1)	281 (2.3)	42 (3.1)	253 (3.4)	9 (1.7)	232 (7.4)
North Carolina	44 (2.7)	278 (1.9)	40 (2.5)>	249 (2.3)	16 (2.0)«	231 (3.4)
North Dakota	54 (4.2)	283 (1.6)	38 (4.0)	276 (2.4)	8 (1.5)	268 (3.8)
Ohio	38 (3.4)	286 (2.6)>	45 (4.0)>	259 (2.5)	17 (3.4)	253 (5.6)!
Oklahoma	49 (2.9)	277 (2.1)	40 (3.0)	259 (1.7)	11 (2.0)	249 (4.8)
Pennsylvania	48 (2.5)	284 (2.2)	36 (2.3)	260 (2.1)	16 (2.1)	248 (4.2)
Rhode Island	45 (1.0)	281 (1.1)	40 (0.9)»	257 (2.4)	14 (0.8)«	241 (3.5)
South Carolina[1]	36 (2.5)	283 (3.1)	37 (2.4)	251 (2.1)	27 (2.5)	241 (2.9)
Tennessee[1]	42 (3.0)	271 (2.2)	41 (2.9)	250 (2.2)	18 (2.8)	240 (3.9)
Texas	57 (2.8)	275 (2.2)»	36 (2.7)	256 (1.8)>	6 (1.4)	239 (5.1)!
Utah[1]	59 (2.4)	283 (1.7)	30 (2.3)	262 (2.1)	11 (1.3)	243 (2.5)
Virginia	52 (2.4)	284 (2.1)	32 (2.6)	256 (2.1)	17 (2.3)	237 (2.4)
West Virginia	46 (3.0)	273 (1.8)	38 (3.1)	247 (1.8)	16 (2.5)	235 (3.1)
Wisconsin	48 (4.4)	282 (2.0)	42 (4.3)	269 (2.2)	11 (4.8)	264(18.7)!
Wyoming	47 (2.3)	283 (1.4)	43 (2.7)	263 (1.8)	10 (2.0)	257 (4.2)!
TERRITORIES						
Guam	28 (1.2)«	267 (2.6)»	38 (1.4)»	233 (2.7)>	35 (0.9)	216 (1.9)
Virgin Islands	25 (0.8)«	230 (2.5)	63 (0.9)»	214 (2.0)	12 (0.5)«	230 (2.6)»

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.42 | **Teachers' Reports on Placing Heavy Instructional Emphasis on Specific Mathematics Skills and Abilities**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Learning Mathematics Facts and Concepts		Learning Skills and Procedures Needed to Solve Problems		Developing Reasoning Ability to Solve Unique Problems		Learning How to Communicate Ideas in Mathematics Effectively	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	96 (0.7)	217 (1.1)	93 (1.1)	217 (1.2)	50 (3.3)	219 (1.7)	39 (2.6)	219 (2.2)
Northeast	97 (1.9)	221 (3.0)	95 (2.2)	221 (3.0)	64 (2.9)	225 (3.3)	42 (5.2)	225 (4.0)
Southeast	95 (1.4)	207 (2.0)	94 (1.5)	208 (2.2)	49 (6.9)	209 (2.9)	45 (5.2)	208 (4.7)
Central	98 (1.2)	224 (2.1)	95 (2.4)	224 (2.2)	42 (7.5)	225 (2.9)	33 (4.8)	224 (3.4)
West	93 (1.3)	218 (2.1)	88 (2.6)	218 (2.1)	49 (6.0)	219 (4.0)	36 (5.6)	222 (4.3)
STATES								
Alabama	97 (0.9)	207 (1.6)	93 (1.5)	208 (1.6)	52 (3.4)	209 (1.9)	49 (3.5)	207 (2.1)
Arizona	94 (1.6)	214 (1.1)	90 (1.8)	215 (1.1)	46 (2.7)	216 (1.4)	34 (2.6)	216 (1.7)
Arkansas	99 (0.7)	209 (1.0)	91 (1.7)	209 (0.9)	31 (3.6)	210 (1.7)	29 (3.4)	209 (2.4)
California	89 (1.9)	208 (1.7)	89 (2.0)	208 (1.7)	48 (4.1)	208 (2.3)	36 (3.2)	210 (2.6)
Colorado	88 (1.9)	220 (1.2)	86 (1.8)	220 (1.2)	49 (3.4)	223 (1.4)	41 (2.9)	223 (1.7)
Connecticut	89 (2.4)	227 (1.5)	93 (1.7)	227 (1.4)	57 (2.8)	231 (1.7)	42 (3.5)	229 (2.1)
Delaware	95 (0.4)	217 (0.9)	93 (0.6)	218 (0.9)	42 (1.3)	223 (1.2)	41 (0.8)	222 (1.1)
Dist. Columbia	88 (0.9)	190 (0.9)	90 (0.8)	191 (0.8)	60 (1.0)	193 (0.9)	61 (1.0)	193 (0.9)
Florida	96 (1.4)	212 (1.3)	95 (1.1)	212 (1.3)	55 (3.4)	216 (1.4)	50 (3.4)	213 (1.7)
Georgia	93 (1.5)	214 (1.2)	95 (1.1)	214 (1.3)	50 (3.8)	217 (1.9)	50 (3.3)	215 (1.9)
Hawaii	89 (2.3)	213 (1.5)	88 (2.2)	214 (1.5)	44 (2.8)	218 (2.1)	36 (2.6)	215 (2.1)
Idaho	91 (2.3)	220 (1.1)	88 (2.1)	220 (1.1)	47 (3.5)	222 (1.4)	29 (2.9)	223 (1.4)
Indiana	96 (1.2)	220 (1.1)	88 (2.3)	219 (1.2)	38 (3.6)	222 (1.9)	30 (3.8)	219 (2.5)
Iowa	94 (1.5)	229 (1.1)	91 (2.3)	229 (1.1)	45 (4.1)	231 (1.5)	35 (3.4)	228 (1.8)
Kentucky	95 (1.4)	214 (1.1)	93 (1.6)	214 (1.1)	53 (3.8)	215 (1.3)	50 (3.9)	213 (1.5)
Louisiana	96 (1.2)	203 (1.6)	94 (1.2)	203 (1.6)	56 (2.9)	204 (1.8)	53 (3.4)	201 (2.2)
Maine	84 (2.7)	230 (1.0)	86 (2.4)	230 (1.1)	49 (3.8)	233 (1.7)	30 (3.4)	233 (2.1)
Maryland	89 (2.0)	217 (1.5)	89 (1.9)	217 (1.5)	65 (3.1)	220 (2.1)	49 (3.3)	216 (2.0)
Massachusetts	91 (2.9)	226 (1.4)	91 (2.1)	227 (1.3)	48 (3.8)	229 (1.6)	35 (3.3)	229 (2.4)
Michigan	91 (2.2)	219 (2.0)	90 (1.9)	218 (1.9)	57 (3.6)	218 (2.3)	45 (3.8)	217 (3.0)
Minnesota	90 (1.9)	227 (1.2)	88 (1.5)	227 (1.2)	46 (3.5)	230 (1.6)	29 (3.1)	229 (2.1)
Mississippi	96 (1.5)	199 (1.3)	93 (1.4)	200 (1.3)	43 (3.0)	199 (1.9)	45 (3.1)	198 (1.8)
Missouri	97 (0.8)	221 (1.4)	91 (2.1)	222 (1.5)	43 (3.5)	225 (2.0)	32 (3.2)	221 (2.5)
Nebraska	95 (1.5)	224 (1.4)	89 (2.6)	224 (1.4)	38 (3.6)	227 (1.9)	36 (3.7)	227 (2.4)
New Hampshire	92 (1.8)	229 (1.2)	88 (1.7)	229 (1.2)	47 (3.6)	233 (1.5)	35 (3.3)	233 (1.9)
New Jersey	95 (1.8)	227 (1.4)	97 (0.8)	227 (1.5)	59 (3.8)	230 (2.1)	53 (4.3)	229 (2.2)
New Mexico	95 (2.0)	213 (1.3)	89 (2.4)	212 (1.3)	37 (3.6)	217 (2.1)	39 (3.3)	213 (2.0)
New York	97 (1.0)	218 (1.4)	95 (2.0)	218 (1.3)	49 (3.1)	217 (2.0)	41 (3.4)	216 (2.1)
North Carolina	93 (1.7)	212 (1.0)	89 (2.0)	212 (1.1)	54 (3.3)	213 (1.4)	43 (3.2)	211 (1.8)
North Dakota	99 (0.7)	228 (0.9)	93 (1.9)	228 (0.9)	37 (3.8)	229 (1.2)	26 (3.4)	228 (1.6)
Ohio	97 (1.2)	217 (1.3)	93 (2.1)	218 (1.3)	53 (3.2)	221 (1.6)	40 (3.8)	220 (2.0)
Oklahoma	99 (0.7)	219 (1.0)	94 (1.5)	219 (1.1)	50 (3.6)	220 (1.5)	37 (3.5)	219 (1.4)
Pennsylvania	96 (1.2)	223 (1.5)	93 (1.6)	223 (1.5)	49 (2.6)	227 (2.0)	42 (2.9)	227 (2.0)
Rhode Island	96 (0.9)	214 (1.7)	93 (1.6)	214 (1.7)	40 (3.4)	217 (2.8)	27 (3.2)	212 (3.4)
South Carolina	95 (1.0)	212 (1.2)	93 (1.8)	211 (1.2)	48 (3.5)	213 (1.6)	48 (3.3)	214 (1.5)
Tennessee	97 (0.9)	210 (1.4)	93 (1.5)	210 (1.5)	42 (3.1)	210 (2.5)	41 (2.9)	208 (2.4)
Texas	92 (1.4)	217 (1.5)	93 (1.4)	217 (1.5)	61 (3.6)	219 (1.4)	48 (3.1)	219 (1.8)
Utah	96 (1.1)	223 (1.0)	90 (2.4)	223 (0.9)	45 (3.5)	225 (1.3)	34 (2.9)	228 (1.6)
Virginia	97 (0.9)	220 (1.4)	93 (1.3)	219 (1.5)	50 (3.2)	222 (2.1)	38 (3.1)	217 (1.8)
West Virginia	95 (1.2)	213 (1.2)	89 (2.5)	213 (1.3)	45 (4.0)	216 (1.9)	35 (3.3)	214 (2.0)
Wisconsin	93 (1.7)	227 (1.2)	90 (2.1)	228 (1.2)	55 (3.1)	231 (1.4)	37 (3.2)	230 (1.8)
Wyoming	95 (1.3)	225 (1.0)	91 (1.9)	225 (1.1)	51 (2.9)	226 (1.3)	34 (3.0)	225 (1.8)
TERRITORY								
Guam	92 (0.8)	192 (0.9)	87 (1.1)	191 (1.0)	36 (1.1)	193 (1.4)	40 (1.1)	197 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.42 | **Teachers' Reports on Placing Heavy Instructional Emphasis on Specific Mathematics Skills and Abilities (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Learning Mathematics Facts and Concepts		Learning Skills and Procedures Needed to Solve Problems		Developing Reasoning Ability to Solve Unique Problems		Learning How to Communicate Ideas in Mathematics Effectively	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	74 (2.0)	266 (1.3)	79 (2.0)	267 (1.2)	48 (2.2)	275 (1.7)	39 (2.4)	272 (1.8)
Northeast	85 (3.1)	269 (3.4)	81 (5.6)	266 (3.1)	56 (4.5)	273 (3.9)	47 (4.6)	274 (5.2)
Southeast	80 (3.7)	261 (1.5)	79 (4.0)	261 (1.7)	47 (3.9)	267 (2.9)	35 (3.6)	265 (3.2)
Central	61 (5.4)	271 (2.5)	73 (4.0)	274 (2.7)	41 (4.8)	284 (2.8)	32 (5.6)	280 (2.6)!
West	71 (3.6)	266 (2.7)	83 (2.5)	268 (2.5)	49 (4.1)	276 (2.4)	44 (4.8)	271 (2.8)
STATES								
Alabama	79 (3.0)»	250 (1.8)	77 (3.7)	250 (1.9)	42 (3.5)	258 (3.8)	43 (4.2)	255 (3.3)
Arizona	72 (4.1)>	262 (1.5)	83 (2.2)»	264 (1.4)	51 (3.5)	271 (1.7)	43 (3.2)	268 (1.8)
Arkansas	72 (3.3)>	253 (1.6)	78 (3.0)>	256 (1.4)	31 (2.6)	266 (2.2)	30 (3.6)	262 (2.3)
California	57 (3.4)	259 (2.3)	70 (2.4)>	259 (2.2)	49 (3.1)	269 (2.6)	40 (3.5)	263 (2.8)
Colorado	70 (2.6)»	270 (1.1)>	73 (2.8)>	270 (1.1)	51 (2.7)	277 (1.3)	43 (3.2)	273 (2.0)
Connecticut	69 (2.8)»	268 (1.4)	71 (2.6)>	271 (1.6)	49 (3.3)	280 (2.1)	45 (3.1)	278 (2.2)
Delaware	72 (1.0)»	263 (1.1)	75 (1.0)»	261 (1.2)	50 (0.9)	269 (1.2)	40 (0.7)>	265 (1.5)«
Dist. Columbia	76 (0.9)»	234 (1.2)	73 (0.8)»	235 (1.1)	71 (1.3)»	235 (1.4)	66 (1.3)>	234 (1.3)
Florida	77 (2.4)»	259 (1.4)	79 (3.2)>	259 (1.5)	52 (3.1)	269 (1.7)	52 (3.1)	265 (1.9)
Georgia	78 (2.9)»	256 (1.5)	83 (2.8)>	256 (1.4)	54 (3.0)	264 (2.0)	54 (3.2)	261 (1.7)
Hawaii	67 (0.9)»	256 (1.0)	68 (0.9)	257 (0.9)>	35 (0.9)«	271 (1.5)>	36 (0.9)	269 (1.4)
Idaho	67 (2.6)>	273 (0.9)	74 (2.9)>	274 (0.8)	50 (2.8)»	280 (1.4)	39 (3.1)	277 (1.4)
Indiana	73 (3.1)	267 (1.3)	72 (3.2)	268 (1.4)	45 (3.0)>	279 (1.9)	34 (3.1)	277 (2.3)
Iowa	66 (4.4)>	283 (1.3)>	73 (3.5)	282 (1.2)	47 (4.5)	289 (1.6)	39 (3.8)>	286 (1.8)
Kentucky	76 (3.2)	262 (1.5)>	76 (2.9)	262 (1.3)>	53 (3.4)	271 (1.9)	45 (3.3)	270 (2.0)
Louisiana	78 (2.7)>	248 (1.9)	77 (3.1)	248 (1.9)	47 (4.0)	255 (2.9)	48 (3.8)	251 (2.6)
Maine[1]	57 (4.3)	277 (1.5)	65 (3.3)	277 (1.3)	50 (4.0)	284 (1.8)	34 (3.2)	286 (2.2)
Maryland	59 (3.5)	260 (2.3)	64 (3.5)	262 (2.0)	51 (2.8)	275 (2.4)	46 (3.4)	270 (2.5)
Massachusetts[1]	75 (2.8)	273 (1.2)	78 (3.1)	273 (1.3)	48 (3.4)	281 (1.8)	44 (3.4)	279 (2.4)
Michigan	63 (3.5)	266 (2.1)	69 (3.4)	266 (1.9)	52 (4.3)	269 (2.7)	44 (4.3)	266 (2.8)
Minnesota	67 (3.7)»	279 (1.5)	74 (2.6)>	280 (1.3)	46 (3.4)>	290 (1.5)>	31 (3.5)	288 (2.2)
Mississippi[1]	90 (2.3)	245 (1.2)	89 (2.5)	245 (1.2)	56 (3.2)	249 (1.9)	58 (3.2)	247 (1.7)
Missouri[1]	64 (3.7)	269 (1.3)	70 (2.5)	269 (1.3)	42 (2.9)	279 (1.9)	34 (3.7)	276 (2.1)
Nebraska	69 (3.8)>	275 (1.5)	77 (3.2)»	276 (1.4)	41 (4.1)	284 (1.7)	23 (2.9)	281 (2.0)
New Hampshire	59 (3.1)	275 (1.3)	64 (3.3)	277 (1.4)>	47 (3.4)	283 (1.6)	37 (3.5)	283 (1.4)
New Jersey	69 (4.3)	271 (2.1)	76 (3.1)	270 (2.0)	63 (3.9)>	274 (2.4)	55 (4.2)	274 (2.4)
New Mexico	75 (3.0)»	259 (0.9)	81 (2.4)»	260 (1.0)>	46 (3.1)	267 (1.6)	44 (2.9)	265 (1.3)
New York	73 (3.8)»	263 (2.5)	72 (3.3)	265 (2.7)	40 (3.1)	276 (2.9)	38 (3.4)	271 (3.3)
North Carolina	71 (2.6)>	257 (1.4)>	72 (2.8)	258 (1.4)>	48 (3.3)	266 (1.8)	42 (3.1)	262 (2.0)
North Dakota	69 (4.2)»	282 (1.3)	78 (3.7)>	282 (1.3)	48 (4.0)>	285 (1.3)	33 (3.9)	284 (1.8)
Ohio	63 (3.9)	267 (2.1)	75 (3.9)	269 (2.1)	39 (3.7)	275 (2.5)	37 (4.2)	275 (3.1)
Oklahoma	83 (2.9)»	266 (1.3)	77 (3.0)>	266 (1.4)	39 (4.2)	276 (2.3)	42 (3.5)	270 (2.2)
Pennsylvania	76 (2.9)>	269 (1.7)	80 (2.5)	270 (1.5)	52 (3.9)	276 (2.1)	43 (3.6)	275 (2.3)
Rhode Island	62 (1.1)	263 (1.0)	71 (0.9)»	267 (1.1)»	53 (1.0)»	273 (1.0)	46 (1.1)»	268 (1.1)
South Carolina[1]	71 (2.8)	258 (1.6)	78 (3.3)	260 (1.5)	51 (3.3)	268 (1.9)	54 (3.3)	262 (1.8)
Tennessee[1]	75 (3.2)	256 (1.9)	81 (2.6)	258 (1.7)	45 (3.6)	265 (2.1)	43 (3.6)	261 (2.1)
Texas	71 (3.0)>	261 (1.5)	80 (2.4)>	263 (1.4)>	61 (2.9)»	270 (2.0)>	49 (3.2)	268 (2.4)>
Utah[1]	75 (2.3)	272 (0.8)	84 (1.8)	274 (0.9)	49 (2.0)	279 (1.3)	36 (2.6)	279 (1.5)
Virginia	82 (2.0)»	267 (1.4)	79 (2.2)	267 (1.5)	48 (2.1)	276 (1.9)	47 (2.8)	273 (2.5)
West Virginia	78 (3.1)»	258 (1.3)	80 (2.7)>	259 (1.2)	47 (2.9)	266 (1.6)	38 (3.5)	266 (1.9)
Wisconsin	64 (4.7)	277 (1.8)	71 (4.1)	278 (2.0)	52 (4.6)>	282 (2.0)	41 (4.7)>	282 (2.8)
Wyoming	66 (3.0)»	272 (1.0)	63 (3.1)	272 (1.1)	40 (2.7)	281 (1.4)	32 (3.1)	282 (1.5)
TERRITORIES								
Guam	68 (0.9)»	237 (1.2)>	60 (1.2)»	243 (1.3)	37 (1.2)»	252 (1.7)	43 (1.1)»	245 (1.5)
Virgin Islands	77 (0.9)»	221 (1.4)>	88 (0.6)»	220 (1.2)	58 (1.2)»	225 (1.2)	60 (1.0)»	221 (1.3)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

Mathematics Teachers and their Classes

TABLE A.43 | **Teachers' Reports on Number of Years' Overall Teaching Experience at the Elementary or Secondary Level**

PUBLIC SCHOOLS	Grade 4 - 1992					
	10 Years or Less Experience		More than 10 Years But Less than 25 Years Experience		25 Years or More Experience	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	35 (2.4)	213 (1.7)	46 (2.4)	220 (1.4)	19 (1.6)	221 (2.0)
Northeast	25 (5.7)	217 (4.5)!	58 (5.1)	225 (3.8)	17 (2.9)	225 (4.2)
Southeast	41 (4.7)	206 (3.7)	42 (3.6)	209 (2.7)	17 (3.2)	210 (5.3)
Central	33 (6.3)	221 (2.5)	44 (6.7)	223 (2.3)	23 (2.8)	228 (4.1)
West	38 (3.3)	212 (2.6)	44 (3.5)	221 (2.2)	18 (3.7)	219 (2.0)!
STATES						
Alabama	26 (2.5)	206 (2.6)	64 (3.1)	208 (1.8)	10 (2.1)	208 (4.1)!
Arizona	42 (2.4)	213 (1.8)	46 (2.4)	216 (1.4)	11 (2.1)	212 (2.2)
Arkansas	35 (3.3)	211 (2.2)	52 (3.5)	209 (1.1)	13 (2.1)	207 (2.3)
California	42 (3.9)	203 (2.4)	40 (3.7)	209 (2.4)	19 (2.5)	211 (3.5)
Colorado	34 (2.7)	219 (2.1)	51 (2.8)	219 (1.1)	15 (1.9)	223 (2.6)
Connecticut	25 (2.7)	224 (2.9)	56 (3.6)	229 (1.4)	19 (2.6)	225 (3.0)
Delaware	40 (1.0)	214 (1.0)	45 (1.0)	218 (1.1)	15 (0.6)	221 (1.8)
Dist. Columbia	28 (0.8)	191 (1.3)	38 (0.8)	191 (1.2)	34 (0.7)	190 (1.1)
Florida	41 (3.6)	213 (3.0)	47 (3.3)	214 (1.5)	12 (1.9)	209 (2.6)
Georgia	42 (3.1)	213 (2.1)	50 (3.2)	214 (1.9)	8 (1.8)	214 (4.4)!
Hawaii	39 (3.3)	213 (1.7)	39 (3.6)	215 (1.9)	22 (2.5)	210 (3.1)
Idaho	43 (3.0)	220 (1.3)	49 (3.1)	221 (1.2)	8 (1.5)	219 (2.6)
Indiana	28 (2.8)	218 (2.1)	53 (3.4)	220 (1.3)	19 (2.4)	218 (2.3)
Iowa	33 (3.3)	228 (1.8)	45 (3.6)	229 (1.8)	21 (2.7)	231 (1.7)
Kentucky	31 (3.1)	211 (1.5)	53 (2.7)	215 (1.5)	16 (2.5)	214 (2.7)
Louisiana	38 (3.3)	203 (2.2)	51 (3.3)	205 (2.0)	11 (2.0)	196 (4.1)
Maine	33 (3.2)	229 (1.7)	57 (3.4)	231 (1.3)	10 (1.6)	232 (2.0)
Maryland	40 (3.3)	217 (2.5)	43 (3.0)	217 (1.6)	17 (2.8)	217 (4.1)
Massachusetts	15 (2.6)	228 (3.8)	57 (3.7)	224 (1.5)	29 (3.7)	227 (2.6)
Michigan	30 (3.0)	220 (2.6)	50 (3.3)	219 (2.1)	21 (2.2)	219 (3.0)
Minnesota	25 (2.8)	225 (2.4)	53 (3.1)	227 (1.4)	22 (2.8)	230 (2.0)
Mississippi	33 (3.3)	200 (2.0)	55 (3.3)	200 (1.4)	11 (2.1)	199 (4.2)
Missouri	33 (3.0)	221 (2.2)	55 (3.1)	221 (1.5)	12 (2.1)	221 (3.1)
Nebraska	30 (2.8)	220 (2.2)	57 (3.2)	226 (1.4)	13 (2.1)	228 (2.9)
New Hampshire	35 (3.3)	228 (2.1)	53 (3.7)	230 (1.6)	12 (2.5)	227 (2.7)!
New Jersey	21 (2.7)	214 (3.9)	55 (3.3)	228 (2.1)	24 (2.9)	231 (2.6)
New Mexico	41 (3.4)	208 (2.5)	45 (3.4)	215 (1.8)	14 (2.5)	213 (3.9)
New York	35 (3.4)	206 (2.6)	48 (3.1)	222 (1.8)	17 (2.1)	225 (2.8)
North Carolina	34 (2.8)	212 (1.8)	51 (3.1)	213 (1.7)	15 (2.3)	211 (3.1)
North Dakota	25 (3.2)	228 (1.8)	54 (3.5)	228 (1.0)	21 (3.2)	228 (1.8)
Ohio	27 (2.9)	213 (2.1)	53 (3.1)	218 (1.6)	20 (3.1)	221 (2.5)
Oklahoma	39 (3.3)	219 (1.7)	53 (3.2)	219 (1.1)	8 (1.7)	220 (3.7)!
Pennsylvania	20 (2.9)	219 (3.7)	58 (3.4)	224 (1.8)	23 (3.1)	226 (2.3)
Rhode Island	31 (3.1)	210 (2.4)	54 (3.5)	216 (2.1)	16 (2.4)	215 (3.5)
South Carolina	37 (2.8)	207 (2.0)	57 (2.9)	213 (1.4)	7 (1.6)	219 (3.1)!
Tennessee	28 (2.6)	205 (2.0)	52 (3.3)	213 (1.7)	20 (2.3)	207 (3.0)
Texas	56 (2.9)	215 (1.6)	36 (2.9)	219 (2.0)	8 (1.6)	216 (4.7)!
Utah	43 (3.1)	222 (1.4)	45 (3.3)	223 (1.6)	12 (2.2)	225 (2.4)
Virginia	42 (2.8)	219 (2.0)	49 (2.5)	220 (1.8)	9 (2.0)	222 (3.7)!
West Virginia	22 (3.0)	211 (2.0)	65 (3.3)	214 (1.4)	13 (2.4)	216 (2.2)
Wisconsin	29 (2.9)	225 (1.9)	44 (3.2)	229 (1.6)	27 (2.9)	229 (2.0)
Wyoming	26 (2.7)	222 (1.6)	57 (2.8)	226 (1.2)	17 (2.2)	224 (1.6)
TERRITORY						
Guam	36 (1.2)	186 (1.7)	53 (1.3)	196 (0.9)	11 (0.6)	187 (2.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.43 **Teachers' Reports on Number of Years' Overall Teaching Experience at the Elementary or Secondary Level (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	10 Years or Less Experience		More than 10 Years But Less than 25 Years Experience		25 Years or More Experience	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	35 (1.8)	263 (1.9)	48 (2.1)	268 (1.4)	17 (1.7)	275 (2.5)
Northeast	20 (3.5)	263 (6.1)!	53 (4.6)	263 (3.2)	27 (4.4)	278 (3.6)
Southeast	41 (3.4)	257 (2.6)	50 (4.0)	264 (2.0)	10 (3.2)	259 (7.5)!
Central	28 (3.2)	272 (5.3)	47 (5.8)	273 (4.3)	25 (4.7)	280 (4.0)
West	45 (4.1)	263 (3.3)	45 (2.8)	270 (2.5)	11 (2.0)	269 (7.5)!
STATES						
Alabama	37 (3.4)	255 (1.7)	53 (4.3)	249 (2.8)	11 (2.5)	248 (4.4)!
Arizona	37 (4.2)	262 (2.6)	47 (4.2)	267 (1.9) >	16 (2.8)	264 (2.3)
Arkansas	37 (4.0)	253 (2.1)	54 (4.1)	257 (2.0)	9 (2.2)	258 (4.6)!
California	42 (3.5)	256 (2.4)	37 (3.2)	265 (2.7)	21 (2.3)	265 (3.9) >
Colorado	41 (3.2)	270 (1.9)	47 (3.2)	273 (1.5)	12 (2.2)	271 (3.3)
Connecticut	17 (2.6)	260 (4.0)	56 (3.4)	276 (2.0)	27 (3.3)	276 (3.6)
Delaware	45 (0.7) »	261 (1.3) >	49 (0.9) «	261 (1.5)	6 (0.7) «	273 (4.4)
Dist. Columbia	24 (1.1)	235 (2.2)	52 (1.1) «	235 (1.2) »	24 (0.8) »	233 (1.7)
Florida	39 (3.4)	257 (2.1)	51 (3.5)	261 (2.3)	10 (1.8)	260 (3.8)
Georgia	42 (2.9)	257 (2.2)	46 (3.1)	262 (1.8)	12 (2.3)	249 (3.3)
Hawaii	51 (1.0) »	257 (1.1) »	33 (1.0) «	255 (1.7)	16 (0.5)	261 (2.1)
Idaho	40 (3.1)	273 (1.2)	49 (3.6)	274 (1.2)	11 (2.3)	282 (3.5)! >
Indiana	32 (4.2)	265 (1.7)	53 (3.9)	271 (1.6)	15 (2.6)	269 (2.6)
Iowa	26 (3.7)	283 (2.1) >	52 (4.4)	282 (1.4)	23 (3.8)	284 (1.7) »
Kentucky	44 (3.9)	260 (1.6)	45 (3.7)	263 (1.9) >	11 (2.9)	264 (4.0)!
Louisiana	38 (3.3)	249 (2.7)	46 (3.5)	250 (2.3)	16 (3.0)	248 (3.4)
Maine[1]	26 (3.2)	278 (2.0)	57 (3.8)	279 (1.3)	17 (3.1)	276 (3.6)
Maryland	27 (3.2)	265 (4.1) >	57 (3.7)	264 (2.1)	15 (2.6)	268 (5.4)
Massachusetts[1]	11 (2.3)	262 (3.8)	68 (4.1)	271 (1.5)	21 (3.7)	280 (2.3)
Michigan	28 (3.0)	269 (3.3)	52 (3.2)	262 (1.9)	20 (2.6)	276 (3.3) >
Minnesota	33 (4.4)	283 (1.7) »	33 (3.8)	282 (1.5)	34 (3.5)	281 (2.0)
Mississippi[1]	28 (3.6)	244 (3.0)	58 (3.8)	246 (1.8)	14 (3.1)	244 (3.6)!
Missouri[1]	42 (3.6)	271 (1.4)	46 (3.3)	271 (1.7)	12 (2.7)	269 (3.4)!
Nebraska	37 (3.9)	275 (1.9)	45 (4.5)	278 (1.8)	18 (3.5) >	281 (2.6)!
New Hampshire	30 (3.0) <	273 (1.4) »	62 (3.0)	279 (1.2)	8 (1.9)	278 (4.0)!
New Jersey	27 (3.5)	266 (3.7)	60 (3.9)	271 (1.9)	13 (2.3)	281 (3.8)
New Mexico	47 (4.0)	257 (1.3)	48 (3.9)	262 (1.6)	5 (1.2) <	259 (3.0)!
New York	25 (2.9)	254 (4.5)	56 (3.4)	267 (2.4)	20 (2.8)	276 (4.3)
North Carolina	41 (2.9)	257 (1.9) >	49 (3.1)	259 (1.8) >	10 (2.1)	255 (3.3)!
North Dakota	30 (3.6)	284 (2.0)	39 (4.0) <	282 (1.6)	31 (3.4) >	282 (1.4)
Ohio	29 (4.1)	267 (2.5)	58 (4.8)	269 (2.0)	13 (2.5)	267 (4.2)
Oklahoma	41 (3.7)	266 (2.0)	52 (3.5)	269 (1.5)	7 (1.9)	263 (5.9)!
Pennsylvania	28 (3.2)	270 (2.8) >	50 (3.8)	271 (2.4)	22 (2.7)	270 (2.8)
Rhode Island	30 (1.1) »	262 (1.4) »	61 (1.1)	265 (0.9)	9 (0.5) «	271 (2.3) >
South Carolina[1]	39 (3.0)	258 (2.1)	53 (2.7)	262 (1.7)	8 (1.6)	259 (3.2)
Tennessee[1]	28 (2.6)	255 (2.5)	59 (3.3)	260 (1.9)	13 (2.4)	254 (3.8)
Texas	47 (3.9)	263 (1.8) >	42 (3.5)	266 (2.3)	12 (2.1)	263 (3.1) >
Utah[1]	51 (2.2)	272 (1.2)	32 (2.5)	276 (1.5)	17 (1.8)	276 (1.8)
Virginia	39 (3.4)	260 (1.6)	52 (3.3)	271 (1.8)	9 (1.9)	270 (4.3)!
West Virginia	42 (3.9)	256 (1.8)	50 (3.8)	260 (1.4)	8 (2.1)	260 (4.7)!
Wisconsin	35 (5.7)	277 (3.9)!	40 (4.2)	281 (1.3)	25 (4.4)	276 (2.5)
Wyoming	40 (3.3)	274 (1.4)	47 (2.8) <	275 (1.2)	13 (2.2)	272 (3.5)
TERRITORIES						
Guam	37 (1.2) «	222 (1.7)	53 (1.0) »	244 (1.6) >	10 (0.5) «	228 (3.3)
Virgin Islands	65 (0.9) «	217 (1.3)	26 (0.9) »	222 (1.8) «	10 (0.5) »	245 (2.5)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.44 | **Teachers' Reports on the Number of Years They Have Taught Mathematics**

PUBLIC SCHOOLS	Grade 8 - 1992					
	10 Years or Less Teaching Mathematics		More than 10 Years But Less than 25 Years Teaching Mathematics		25 Years or More Experience	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	43 (2.1)	263 (1.6)	44 (2.4)	269 (1.8)	13 (1.8)	275 (3.3)
Northeast	27 (3.6)	263 (4.3)	53 (5.1)	266 (3.7)	21 (6.1)	278 (6.1)!
Southeast	53 (5.1)	258 (2.0)	39 (5.0)	263 (2.4)	8 (2.3)	264 (8.2)!
Central	37 (3.3)	270 (3.9)	42 (5.7)	276 (4.6)	22 (5.0)	281 (4.8)!
West	51 (3.9)	264 (2.9)	43 (3.6)	271 (2.7)	6 (1.4)	261 (4.3)!
STATES						
Alabama	43 (3.6)	253 (1.7)	48 (4.1)	251 (2.9)	8 (2.3)	246 (4.6)!
Arizona	52 (3.8)	262 (1.8)	39 (3.5)	269 (2.0)	9 (2.2)	260 (3.1)!
Arkansas	41 (4.3)	252 (2.1)	51 (4.4)	257 (2.0)	7 (2.1)	260 (4.4)!
California	55 (3.3)	255 (2.1)	35 (3.3)	268 (2.9)	11 (1.7)	266 (3.5)
Colorado	48 (3.3)	269 (1.7)>	43 (3.0)	274 (1.6)	10 (2.0)	276 (3.3)!
Connecticut	27 (2.9)	267 (2.9)	52 (3.1)	275 (1.9)	21 (2.9)	278 (4.7)
Delaware	59 (0.8)»	261 (1.1)	35 (0.9)«	262 (1.7)	6 (0.7)	273 (4.4)
Dist. Columbia	26 (1.1)<	235 (2.4)	53 (1.1)	234 (1.4)»	21 (0.7)»	235 (1.9)
Florida	53 (3.3)	257 (1.8)	40 (3.3)	262 (2.0)	6 (1.6)	256 (5.1)!
Georgia	53 (3.5)	258 (1.9)	38 (3.6)	261 (2.0)	9 (1.8)	250 (3.9)!
Hawaii	57 (0.9)»	254 (1.1)»	29 (0.9)«	259 (1.7)	13 (0.5)	265 (2.1)
Idaho	53 (3.0)	273 (1.2)>	39 (3.0)	273 (1.3)	8 (1.7)	287 (2.4)!»
Indiana	35 (4.2)	265 (1.8)	54 (4.1)	273 (1.6)	11 (2.1)	267 (3.1)
Iowa	32 (3.8)	281 (2.0)>	47 (4.2)	283 (1.4)	21 (3.9)	285 (1.8)!»
Kentucky	49 (4.1)	260 (1.8)	43 (3.6)	264 (1.7)>	8 (2.5)	269 (4.6)!
Louisiana	44 (3.4)	247 (2.7)	45 (3.4)	250 (2.2)	12 (2.6)	253 (3.1)!
Maine[1]	37 (4.3)	276 (1.6)	49 (4.6)	280 (1.6)	14 (3.3)	276 (3.1)!
Maryland	35 (3.5)	263 (3.1)>	51 (3.6)	265 (2.2)	14 (2.7)	270 (5.9)!
Massachusetts[1]	21 (2.8)	260 (2.5)	61 (3.7)	273 (1.7)	18 (3.5)	282 (2.4)
Michigan	41 (3.5)	264 (2.8)	45 (3.7)	266 (2.6)	14 (2.0)	279 (4.6)
Minnesota	35 (4.3)	283 (1.6)»	34 (3.9)	282 (1.6)	31 (3.1)	282 (2.1)
Mississippi[1]	36 (3.8)	245 (2.5)	54 (3.8)	246 (1.9)	10 (2.6)	245 (4.9)!
Missouri[1]	46 (3.7)	269 (1.5)	44 (3.4)	273 (1.6)	9 (2.4)	271 (4.1)!
Nebraska	42 (3.8)	275 (1.7)	41 (4.4)	278 (1.9)	18 (3.5)>	281 (2.8)!
New Hampshire	37 (3.3)<	274 (1.2)>	58 (3.5)	280 (1.3)	5 (1.8)	277 (5.7)!
New Jersey	38 (4.1)	266 (3.4)	53 (4.1)	273 (2.0)	9 (2.0)	284 (3.2)!
New Mexico	56 (3.6)	257 (1.1)>	42 (3.5)	263 (1.7)	2 (0.6)«	*** (***)
New York	30 (3.4)	251 (4.2)	52 (4.0)	269 (2.5)	18 (2.6)	281 (3.4)>
North Carolina	48 (3.1)	257 (1.7)>	44 (3.1)	259 (1.9)>	8 (2.0)	257 (3.5)!
North Dakota	36 (3.5)	283 (1.7)	39 (3.9)<	283 (1.8)	24 (3.3)>	281 (1.7)
Ohio	43 (4.2)	268 (2.1)>	47 (4.7)	269 (2.4)	10 (2.3)	266 (5.1)!
Oklahoma	50 (4.1)	266 (1.9)	44 (4.0)	269 (1.5)	6 (1.8)	262 (6.0)!
Pennsylvania	31 (3.0)	268 (2.7)»	49 (3.7)	272 (2.2)	20 (2.8)	272 (3.1)
Rhode Island	35 (1.1)»	260 (1.4)>	55 (1.1)<	267 (1.0)>	10 (0.5)«	271 (2.2)>
South Carolina[1]	46 (3.2)	257 (1.8)	49 (3.0)	263 (1.8)	5 (1.2)	260 (4.4)!
Tennessee[1]	42 (3.4)	257 (2.0)	48 (3.7)	259 (2.3)	10 (1.9)	260 (3.4)
Texas	50 (3.8)	262 (1.7)>	41 (3.3)	267 (2.3)>	10 (1.9)	263 (3.7)
Utah[1]	61 (2.5)	271 (1.1)	28 (2.6)	276 (1.7)	11 (1.3)	280 (2.2)
Virginia	48 (3.4)	262 (1.5)	46 (3.1)	271 (2.0)	6 (1.4)	270 (5.1)!
West Virginia	47 (4.0)	256 (1.7)	46 (3.9)	260 (1.5)	7 (2.0)	261 (4.3)!
Wisconsin	40 (5.4)	276 (3.5)	41 (4.1)	280 (1.8)	18 (3.6)	279 (2.2)
Wyoming	44 (3.1)	274 (1.3)	46 (3.1)	274 (1.5)	11 (1.5)	277 (2.2)
TERRITORIES						
Guam	42 (1.3)«	227 (1.6)	48 (1.1)»	243 (1.8)	10 (0.5)»	228 (3.3)
Virgin Islands	65 (0.9)«	217 (1.3)	34 (0.9)»	228 (1.7)	1 (0.2)«	*** (***)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.
[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.45 | **Teachers' Reports on Their Undergraduate Major**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Mathematics		Mathematics Education		Education		Other	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	5 (1.0)	217 (5.0)	2 (0.6)	231 (6.2)!	82 (1.5)	218 (1.0)	11 (1.3)	214 (2.4)
Northeast	5 (1.7)	*** (***)	3 (2.0)	*** (***)	77 (4.6)	222 (2.4)	15 (4.6)	222 (5.9)!
Southeast	5 (2.2)	211 (3.6)!	1 (0.7)	*** (***)	89 (2.8)	207 (2.0)	5 (1.7)	208 (7.2)!
Central	6 (1.5)	223(10.4)!	1 (0.8)	*** (***)	90 (2.1)	224 (2.0)	3 (1.6)	*** (***)
West	4 (2.1)	215 (5.8)!	1 (1.0)	*** (***)	73 (2.4)	218 (2.0)	21 (2.1)	214 (2.8)
STATES								
Alabama	6 (2.1)	201 (4.6)!	1 (0.5)	*** (***)	90 (2.4)	208 (1.7)	3 (1.1)	211 (5.2)!
Arizona	6 (1.4)	211 (5.0)!	1 (0.7)	*** (***)	81 (2.4)	214 (1.2)	11 (2.0)	212 (2.7)
Arkansas	4 (1.6)	203 (4.7)!	1 (0.7)	*** (***)	90 (2.4)	209 (0.9)	5 (1.7)	213 (4.7)!
California	5 (1.7)	211 (4.9)!	1 (0.8)	*** (***)	51 (2.9)	209 (1.8)	43 (3.2)	204 (2.5)
Colorado	5 (1.2)	226 (5.6)!	2 (0.7)	*** (***)	81 (2.3)	220 (1.1)	12 (2.1)	217 (3.6)
Connecticut	3 (0.8)	230 (6.5)!	1 (0.7)	*** (***)	82 (2.4)	227 (1.3)	14 (2.1)	221 (3.3)
Delaware	4 (0.3)	225 (5.3)	2 (0.3)	*** (***)	90 (0.6)	217 (0.8)	5 (0.3)	209 (3.5)
Dist. Columbia	4 (0.4)	188 (2.8)	1 (0.0)	*** (***)	87 (0.5)	190 (0.7)	8 (0.4)	197 (2.9)
Florida	2 (0.7)	*** (***)	1 (0.4)	*** (***)	90 (1.8)	213 (1.6)	7 (1.6)	211 (4.3)!
Georgia	5 (1.4)	208 (5.5)!	2 (0.6)	*** (***)	86 (2.1)	214 (1.3)	7 (1.4)	215 (3.0)
Hawaii	6 (1.4)	213 (3.7)!	1 (0.6)	*** (***)	79 (2.4)	213 (1.6)	14 (2.2)	215 (2.7)
Idaho	6 (1.3)	222 (3.2)!	4 (1.2)	224 (3.9)!	84 (2.1)	220 (1.2)	6 (1.5)	216 (2.5)!
Indiana	3 (1.3)	217 (6.0)!	3 (1.0)	220 (2.8)!	93 (1.7)	219 (1.2)	1 (0.6)	*** (***)
Iowa	4 (1.5)	230 (4.5)!	4 (1.5)	235 (6.5)!	87 (2.4)	228 (1.2)	5 (1.5)	235 (4.0)!
Kentucky	2 (0.7)	*** (***)	1 (0.9)	*** (***)	95 (1.4)	214 (1.1)	2 (0.8)	*** (***)
Louisiana	5 (1.9)	212 (6.0)!	2 (1.2)	*** (***)	89 (2.4)	203 (1.7)	4 (1.3)	189 (5.4)!
Maine	2 (0.7)	*** (***)	1 (0.7)	*** (***)	82 (2.7)	230 (1.1)	14 (2.6)	233 (2.4)
Maryland	4 (1.3)	216 (7.2)!	1 (0.5)	*** (***)	89 (1.9)	217 (1.3)	6 (1.3)	208 (6.0)!
Massachusetts	3 (1.1)	218 (6.9)!	2 (0.8)	*** (***)	79 (2.7)	226 (1.4)	16 (2.2)	223 (3.3)
Michigan	15 (3.2)	217 (5.1)!	2 (1.1)	*** (***)	70 (3.6)	222 (1.7)	13 (2.1)	213 (6.5)
Minnesota	3 (1.2)	228 (3.4)!	1 (0.7)	*** (***)	94 (1.7)	227 (1.1)	2 (1.0)	*** (***)
Mississippi	5 (1.4)	192 (3.9)!	2 (1.1)	*** (***)	91 (1.9)	200 (1.3)	2 (0.8)	202 (6.8)!
Missouri	3 (1.0)	215 (7.9)!	2 (0.7)	*** (***)	90 (1.4)	221 (1.4)	5 (1.4)	228 (5.1)!
Nebraska	3 (0.8)	224 (5.9)!	0 (0.2)	*** (***)	93 (1.7)	224 (1.4)	4 (1.6)	232 (6.0)!
New Hampshire	5 (1.5)	230 (3.3)!	1 (0.6)	*** (***)	80 (2.3)	229 (1.3)	13 (1.8)	227 (2.3)
New Jersey	5 (1.4)	225 (6.4)!	0 (0.0)	*** (***)	84 (2.5)	227 (1.6)	10 (2.2)	221 (6.2)!
New Mexico	7 (2.1)	214 (3.9)!	1 (0.8)	*** (***)	83 (3.0)	211 (1.5)	9 (1.8)	215 (5.2)!
New York	4 (1.2)	217 (6.8)!	1 (0.8)	*** (***)	72 (2.9)	218 (1.5)	22 (2.5)	213 (3.0)
North Carolina	4 (1.2)	218 (3.0)!	1 (0.6)	*** (***)	90 (1.7)	212 (1.1)	5 (1.1)	206 (3.1)!
North Dakota	6 (2.4)	230 (2.3)!	1 (0.3)	*** (***)	91 (2.6)	228 (0.8)	3 (1.2)	*** (***)
Ohio	4 (1.5)	223 (4.9)!	1 (0.5)	*** (***)	92 (2.1)	217 (1.3)	4 (1.1)	210 (9.0)!
Oklahoma	9 (2.6)	217 (3.2)!	1 (0.5)	*** (***)	86 (2.8)	220 (1.1)	3 (0.8)	217 (2.9)!
Pennsylvania	5 (1.6)	227 (4.9)!	3 (1.2)	224 (6.5)!	85 (2.5)	224 (1.4)	8 (1.6)	219 (4.7)!
Rhode Island	5 (1.3)	201 (4.4)!	1 (0.5)	*** (***)	79 (2.5)	214 (1.7)	15 (2.2)	218 (3.7)
South Carolina	2 (0.6)	*** (***)	1 (0.9)	*** (***)	90 (1.5)	212 (1.1)	6 (1.0)	210 (4.8)
Tennessee	4 (0.7)	203 (6.4)!	2 (1.0)	*** (***)	87 (1.9)	210 (1.4)	7 (1.6)	210 (3.4)!
Texas	10 (2.3)	220 (4.5)!	2 (0.7)	*** (***)	74 (3.1)	218 (1.4)	14 (2.5)	208 (4.4)
Utah	7 (1.7)	229 (3.8)!	1 (0.4)	*** (***)	86 (2.1)	222 (1.0)	6 (1.3)	221 (3.1)!
Virginia	2 (0.8)	*** (***)	2 (1.3)	*** (***)	88 (2.1)	219 (1.5)	8 (1.8)	222 (4.6)!
West Virginia	5 (1.4)	213 (2.8)!	3 (1.4)	220 (6.3)!	86 (2.7)	213 (1.2)	6 (1.7)	213 (4.7)!
Wisconsin	2 (0.9)	*** (***)	1 (0.4)	*** (***)	95 (1.4)	226 (0.9)	2 (1.0)	225(16.7)!
Wyoming	3 (0.9)	*** (***)	3 (1.2)	232 (4.2)!	89 (2.2)	224 (1.0)	5 (1.5)	224 (4.3)!
TERRITORY								
Guam	8 (0.6)	191 (2.6)	0 (0.0)	*** (***)	84 (1.0)	192 (0.9)	8 (0.8)	183 (3.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.45 | **Teachers' Reports on Their Undergraduate Major (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Mathematics		Mathematics Education		Education		Other	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	45 (2.9)	273 (1.7)	16 (2.1)	269 (2.5)	27 (2.8)	260 (2.3)	12 (1.2)	257 (2.7)
Northeast	50 (7.0)	272 (5.2)	12 (2.1)	278 (4.6)!	29 (7.1)	259 (7.1)!	9 (1.7)	254 (6.6)
Southeast	34 (5.4)	267 (3.0)	17 (3.7)	260 (3.6)!	38 (5.3)	259 (1.9)	11 (2.4)	247 (4.9)!
Central	53 (5.8)	281 (2.5)	19 (3.9)	270 (6.3)!	18 (4.7)	262 (6.2)!	10 (3.0)	272 (4.6)!
West	45 (5.4)	271 (2.5)	15 (4.9)	273 (3.3)!	25 (5.3)	261 (5.6)!	15 (2.8)	257 (4.2)
STATES								
Alabama	51 (4.4)	254 (2.4)	22 (3.6)	255 (2.9)	20 (4.0)	239 (3.1)!	6 (1.8)	258 (7.9)!
Arizona	20 (2.5)	267 (3.3)	9 (2.3)	264 (3.3)!	54 (3.4)	264 (1.8)	17 (2.8)	262 (2.8)
Arkansas	49 (3.6)	257 (1.9)	25 (3.1)	260 (2.5)	17 (2.4)	247 (3.4)	10 (2.2)	254 (4.5)!
California	30 (3.3)	267 (3.6)	7 (1.8)	268 (3.0)!	27 (3.3)	261 (3.1)	37 (3.0)	254 (2.9)
Colorado	50 (2.8)	274 (1.5)	14 (2.0)	273 (2.6)	24 (2.9)	268 (2.2)	12 (2.1)	268 (3.0)
Connecticut	43 (3.4)	279 (2.3)	14 (2.4)	277 (4.4)	26 (3.1)	264 (3.1)	18 (2.8)	270 (3.7)
Delaware	29 (0.5)	265 (1.5)	25 (0.9)	265 (1.5)	23 (0.8)	252 (2.3)	22 (0.7)	265 (2.0)
Dist. Columbia	63 (1.1)	236 (1.2)	17 (0.9)	228 (1.6)	12 (0.7)	232 (2.8)	8 (0.7)	239 (5.3)
Florida	37 (2.8)	260 (2.4)	19 (3.1)	262 (3.2)	27 (3.4)	257 (3.0)	17 (2.3)	257 (2.8)
Georgia	28 (2.9)	261 (2.8)	19 (2.8)	258 (2.8)	42 (3.7)	258 (2.2)	11 (1.7)	255 (2.9)
Hawaii	47 (0.9)	263 (1.2)	22 (0.7)	264 (1.8)	23 (0.8)	243 (1.7)	8 (0.4)	243 (2.2)
Idaho	37 (2.8)	277 (1.5)	16 (2.0)	276 (2.2)	36 (3.1)	270 (1.4)	10 (2.0)	277 (2.9)
Indiana	51 (3.4)	272 (1.6)	27 (3.4)	269 (2.2)	16 (2.1)	260 (2.4)	7 (1.9)	272 (5.7)!
Iowa	54 (4.1)	284 (1.4)	19 (2.8)	285 (2.9)	23 (3.4)	279 (2.0)	4 (0.8)	284 (4.4)!
Kentucky	36 (3.2)	269 (2.1)	17 (2.5)	267 (2.9)	42 (3.6)	255 (1.8)	6 (1.7)	255 (4.6)!
Louisiana	19 (2.5)	253 (3.8)	29 (3.0)	251 (3.1)	47 (3.7)	247 (1.9)	4 (1.2)	247(10.1)!
Maine	44 (4.0)	283 (1.4)	13 (2.4)	281 (3.4)	31 (3.7)	273 (2.0)	12 (2.4)	270 (3.3)!
Maryland	46 (3.6)	268 (2.2)	19 (3.2)	265 (3.7)	27 (3.6)	259 (2.6)	8 (2.0)	266 (6.5)!
Massachusetts	54 (3.1)	275 (1.7)	10 (1.7)	276 (4.8)	20 (2.5)	265 (3.7)	17 (2.7)	270 (3.9)
Michigan	48 (3.2)	274 (2.5)	11 (2.6)	269 (5.9)!	33 (3.2)	256 (1.9)	8 (1.6)	267 (4.6)
Minnesota	61 (3.2)	283 (1.3)	32 (2.8)	282 (1.9)	6 (1.9)	273 (4.1)!	2 (1.1)	*** (***)
Mississippi	39 (3.9)	246 (2.4)	21 (3.5)	248 (2.6)	36 (3.4)	243 (2.2)	4 (1.5)	246(11.4)!
Missouri	42 (3.7)	272 (2.1)	32 (2.6)	274 (1.2)	19 (3.1)	262 (2.6)	8 (1.9)	27[illegible] (3.6)!
Nebraska	55 (3.8)	275 (1.3)	33 (3.6)	280 (2.2)	11 (2.3)	276 (4.0)!	2 (1.1)	*** (***)
New Hampshire	44 (4.1)	280 (1.1)	15 (2.3)	274 (1.9)	23 (3.4)	277 (2.0)	18 (3.0)	275 (3.6)
New Jersey	35 (4.0)	279 (2.5)	13 (2.6)	281 (3.4)	41 (3.3)	263 (2.7)	10 (2.0)	264 (4.8)!
New Mexico	49 (3.1)	262 (1.6)	10 (1.8)	265 (2.1)	33 (3.1)	254 (1.4)	7 (1.6)	259 (4.1)!
New York	55 (3.3)	269 (2.4)	15 (2.9)	272 (4.2)	12 (2.5)	256 (5.8)!	18 (2.9)	255 (5.3)
North Carolina	39 (3.6)	263 (2.0)	25 (3.4)	259 (2.3)	26 (2.8)	251 (2.1)	10 (1.8)	250 (3.0)
North Dakota	58 (4.3)	284 (1.4)	21 (3.8)	280 (2.4)	20 (2.9)	282 (1.8)	1 (0.7)	*** (***)
Ohio	36 (4.0)	267 (3.1)	21 (4.4)	271 (5.0)!	32 (3.8)	269 (2.3)	11 (3.6)	265 (4.9)!
Oklahoma	39 (4.0)	270 (1.8)	28 (3.6)	268 (2.2)	31 (4.1)	263 (2.3)	2 (0.8)	*** (***)
Pennsylvania	57 (3.8)	276 (1.8)	29 (3.5)	271 (2.1)	10 (2.0)	255 (5.4)!	4 (1.3)	237 (6.7)!
Rhode Island	66 (0.8)	267 (0.8)	10 (0.6)	263 (2.4)	17 (0.6)	259 (2.1)	7 (0.6)	263 (2.6)
South Carolina	40 (3.2)	267 (2.1)	16 (2.6)	264 (2.5)	32 (2.6)	252 (1.9)	10 (2.2)	254 (4.7)!
Tennessee	33 (3.9)	262 (2.9)	13 (2.7)	261 (3.4)!	43 (4.1)	255 (1.7)	10 (2.2)	257 (3.5)!
Texas	60 (3.0)	268 (1.6)	13 (2.4)	263 (3.8)	16 (2.3)	258 (3.6)	11 (1.8)	252 (3.5)
Utah	36 (2.4)	275 (1.5)	21 (2.1)	276 (1.7)	28 (2.3)	271 (1.4)	15 (1.9)	273 (2.7)
Virginia	51 (3.0)	273 (1.7)	18 (2.4)	261 (2.4)	19 (2.5)	261 (3.1)	11 (1.7)	261 (3.7)
West Virginia	45 (3.9)	261 (1.3)	37 (3.7)	258 (1.7)	16 (2.7)	253 (2.3)	2 (0.8)	*** (***)
Wisconsin	36 (3.8)	282 (1.3)	27 (4.9)	283 (3.3)!	33 (3.7)	270 (2.3)	3 (1.2)	278 (5.3)!
Wyoming	44 (2.5)	276 (1.6)	34 (2.6)	275 (1.3)	14 (1.7)	269 (2.3)	8 (1.2)	274 (2.6)
TERRITORIES								
Guam	43 (1.4)	242 (1.8)	20 (1.1)	222 (2.6)	24 (1.2)	237 (2.1)	13 (0.7)	226 (2.5)
Virgin Islands	51 (0.6)	224 (1.4)	5 (0.4)	237 (4.1)	7 (0.7)	219 (3.7)	37 (0.8)	214 (1.7)

TABLE A.46 | **Teachers' Reports on Their Graduate Major**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Mathematics		Mathematics Education		Education		Other	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	2 (0.7)	215 (8.1)!	3 (0.9)	224 (8.3)!	82 (2.3)	219 (1.1)	13 (1.6)	216 (2.5)
Northeast	0 (0.0)	*** (***)	2 (1.9)	*** (***)	79 (5.4)	226 (2.1)	19 (5.1)	218 (4.1)!
Southeast	4 (2.5)	*** (***)	3 (2.1)	*** (***)	84 (4.6)	207 (2.2)	9 (2.7)	206 (5.3)!
Central	1 (1.2)	*** (***)	1 (1.0)	*** (***)	85 (4.0)	225 (2.0)	12 (3.1)	219 (6.2)!
West	2 (1.0)	*** (***)	5 (2.2)	*** (***)	79 (4.7)	218 (2.6)	13 (2.4)	218 (3.1)
STATES								
Alabama	3 (1.1)	*** (***)	1 (0.8)	*** (***)	92 (1.9)	208 (1.6)	3 (1.4)	211 (5.2)!
Arizona	2 (0.9)	*** (***)	3 (0.8)	*** (***)	79 (2.3)	214 (1.2)	16 (2.2)	215 (2.7)
Arkansas	2 (1.7)	*** (***)	1 (0.7)	*** (***)	88 (2.3)	209 (1.2)	9 (1.9)	207 (2.8)!
California	2 (0.8)	*** (***)	3 (1.1)	207 (5.6)!	81 (2.6)	206 (1.7)	14 (2.3)	208 (3.3)
Colorado	3 (1.0)	217 (4.6)!	2 (0.7)	*** (***)	76 (2.7)	219 (1.4)	19 (2.5)	220 (2.5)
Connecticut	2 (0.9)	*** (***)	2 (0.7)	*** (***)	78 (2.8)	227 (1.5)	18 (2.7)	229 (2.5)
Delaware	2 (0.6)	*** (***)	3 (0.4)	*** (***)	84 (1.0)	219 (1.1)	10 (0.7)	218 (3.8)
Dist. Columbia	9 (0.3)	198 (2.7)	8 (0.5)	184 (2.2)	62 (0.9)	188 (0.7)	21 (0.9)	197 (1.9)
Florida	3 (1.2)	*** (***)	2 (0.7)	*** (***)	80 (3.0)	212 (1.8)	16 (2.8)	206 (3.6)
Georgia	3 (1.2)	*** (***)	4 (1.6)	198 (8.9)!	88 (2.2)	216 (1.7)	5 (1.2)	208 (5.4)!
Hawaii	3 (1.1)	*** (***)	2 (0.9)	*** (***)	85 (2.1)	214 (1.7)	10 (1.9)	207 (2.5)
Idaho	4 (1.3)	221 (3.5)!	5 (1.5)	225 (3.7)!	81 (2.9)	220 (1.2)	9 (2.2)	221 (2.4)!
Indiana	1 (0.7)	*** (***)	1 (0.9)	*** (***)	95 (1.2)	219 (1.1)	2 (1.1)	*** (***)
Iowa	6 (1.8)	232 (2.6)!	8 (2.6)	237 (3.3)!	71 (3.9)	229 (1.6)	15 (2.8)	226 (2.7)!
Kentucky	0 (0.3)	*** (***)	1 (1.0)	*** (***)	93 (1.6)	214 (1.2)	5 (1.2)	216 (3.2)!
Louisiana	4 (1.5)	204 (3.9)!	2 (1.7)	*** (***)	85 (2.0)	204 (2.1)	8 (1.4)	200 (4.0)
Maine	4 (1.7)	*** (***)	1 (0.5)	*** (***)	77 (4.6)	231 (1.8)	18 (4.1)	228 (2.8)!
Maryland	3 (1.2)	209 (7.2)!	3 (1.2)	217 (5.9)!	73 (3.2)	216 (1.6)	20 (2.9)	220 (3.2)
Massachusetts	4 (1.4)	222 (7.0)!	2 (1.0)	*** (***)	80 (2.9)	228 (1.5)	14 (2.6)	218 (4.1)!
Michigan	4 (1.5)	211(16.8)!	3 (1.4)	*** (***)	70 (3.7)	221 (2.0)	23 (3.4)	219 (4.1)
Minnesota	3 (1.2)	*** (***)	2 (0.9)	*** (***)	87 (2.3)	229 (1.0)	9 (2.0)	220 (4.9)!
Mississippi	3 (1.7)	*** (***)	1 (0.5)	*** (***)	94 (2.0)	200 (1.4)	2 (0.9)	*** (***)
Missouri	4 (1.6)	224 (4.2)!	3 (1.3)	*** (***)	77 (3.3)	221 (1.4)	15 (3.2)	218 (3.5)!
Nebraska	3 (1.3)	*** (***)	2 (0.9)	*** (***)	85 (2.5)	226 (1.5)	10 (2.3)	222 (3.7)!
New Hampshire	3 (1.6)	*** (***)	6 (1.8)	231 (2.8)!	78 (3.7)	229 (1.8)	14 (3.1)	231 (3.2)!
New Jersey	3 (1.5)	*** (***)	1 (0.5)	*** (***)	65 (4.3)	226 (2.3)	31 (3.9)	229 (3.6)
New Mexico	3 (1.5)	*** (***)	1 (0.9)	*** (***)	86 (2.7)	212 (1.7)	10 (2.2)	206 (4.5)!
New York	2 (1.0)	*** (***)	2 (0.6)	*** (***)	82 (2.3)	218 (1.3)	15 (1.9)	209 (3.7)
North Carolina	4 (1.7)	*** (***)	3 (1.5)	*** (***)	74 (4.2)	211 (1.9)	19 (4.0)	213 (3.3)!
North Dakota	7 (2.5)	233 (3.6)!	1 (0.7)	*** (***)	85 (3.2)	228 (1.1)	7 (2.1)	228 (2.7)!
Ohio	2 (0.8)	*** (***)	3 (1.3)	218 (9.6)!	85 (2.4)	217 (1.4)	10 (2.0)	221 (4.9)
Oklahoma	1 (0.8)	*** (***)	1 (0.6)	*** (***)	87 (2.4)	220 (1.3)	11 (2.1)	215 (3.1)
Pennsylvania	2 (0.6)	*** (***)	1 (0.4)	*** (***)	89 (1.8)	225 (1.5)	8 (1.7)	217 (4.5)!
Rhode Island	2 (1.0)	*** (***)	3 (1.2)	*** (***)	79 (2.4)	213 (1.8)	16 (2.2)	219 (4.1)
South Carolina	3 (1.5)	200 (9.8)!	1 (0.7)	*** (***)	86 (2.2)	212 (1.3)	10 (1.9)	208 (3.4)!
Tennessee	1 (0.7)	*** (***)	3 (1.5)	*** (***)	77 (3.2)	210 (1.6)	19 (2.8)	209 (2.7)
Texas	6 (2.0)	218 (5.9)!	1 (0.5)	*** (***)	73 (3.5)	217 (2.0)	20 (3.4)	214 (4.5)
Utah	7 (1.9)	224 (3.6)!	4 (1.1)	226 (6.3)!	81 (2.7)	224 (1.5)	8 (1.9)	222 (3.0)!
Virginia	2 (0.9)	*** (***)	3 (1.2)	*** (***)	75 (3.7)	220 (2.3)	20 (3.0)	220 (4.3)
West Virginia	1 (0.5)	*** (***)	1 (0.7)	*** (***)	78 (2.8)	213 (1.4)	20 (2.7)	215 (2.1)
Wisconsin	3 (1.7)	*** (***)	2 (0.9)	*** (***)	81 (3.1)	229 (1.3)	14 (2.6)	222 (3.3)
Wyoming	6 (1.6)	226 (3.2)!	4 (1.7)	224 (3.7)!	77 (3.2)	224 (1.3)	13 (2.8)	227 (2.0)!
TERRITORY								
Guam	5 (0.6)	187 (4.0)	1 (0.1)	*** (***)	81 (1.4)	195 (1.1)	13 (1.2)	189 (3.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.46 | **Teachers' Reports on Their Graduate Major (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Mathematics		Mathematics Education		Education		Other	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (2.7)	272 (3.2)	19 (2.4)	273 (3.3)	46 (4.0)	267 (2.2)	13 (1.9)	260 (3.4)
Northeast	20 (5.3)	265 (5.6)!	24 (4.9)	277 (6.9)!	44 (9.1)	267 (7.0)!	13 (3.9)	256 (8.6)!
Southeast	21 (6.4)	261 (6.7)!	22 (6.2)	267 (6.5)!	50 (9.1)	261 (2.4)!	7 (5.2)	237 (3.6)!
Central	23 (4.2)	285 (4.5)	18 (5.5)	269 (7.3)!	43 (6.2)	274 (4.2)	16 (2.0)	266 (5.9)
West	21 (4.3)	272 (6.1)!	16 (3.1)	279 (5.0)	48 (7.2)	265 (3.0)	16 (3.5)	267 (4.1)!
STATES								
Alabama	31 (4.5)	254 (3.4)	26 (4.4)	261 (3.8)	38 (5.3)	248 (4.5)	5 (1.8)	247 (9.3)!
Arizona	18 (3.3)	264 (2.6)	13 (2.4)	268 (3.6)	44 (3.5)	263 (2.3)	26 (3.4)	263 (2.3)
Arkansas	28 (4.3)	260 (2.9)	28 (3.2)	263 (2.7)	32 (4.6)	250 (3.1)	12 (2.7)	253 (4.2)!
California	18 (2.6)	270 (4.6)	11 (2.4)	270 (5.3)!	53 (4.0)	260 (2.2)	18 (2.5)	253 (3.1)
Colorado	22 (3.0)	272 (2.7)	22 (3.0)	272 (2.6)	39 (4.1)	270 (2.1)	17 (3.3)	273 (3.4)
Connecticut	23 (3.2)	275 (4.1)	20 (3.0)	279 (2.4)	43 (3.6)	270 (2.4)	13 (2.3)	275 (2.9)
Delaware	13 (1.0)	268 (3.1)	28 (0.9)	268 (2.0)	35 (0.9)	260 (2.1)	24 (1.1)	261 (2.2)
Dist. Columbia	26 (1.1)	231 (2.2)	22 (1.0)	235 (2.3)	30 (1.3)	240 (1.8)	22 (1.2)	235 (2.8)
Florida	19 (2.9)	264 (3.9)	18 (3.1)	270 (3.9)	38 (3.8)	259 (3.0)	24 (3.6)	257 (3.4)
Georgia	17 (3.2)	262 (3.9)	31 (3.7)	263 (2.9)	43 (3.6)	256 (2.2)	9 (1.9)	248 (4.3)!
Hawaii	20 (1.0)	261 (2.4)	31 (1.1)	264 (1.7)	35 (1.2)	249 (1.5)	14 (0.8)	246 (2.3)
Idaho	16 (2.6)	279 (3.1)	19 (3.2)	274 (2.4)	51 (3.9)	272 (1.8)	13 (2.7)	274 (1.9)!
Indiana	30 (4.0)	274 (2.4)	24 (4.2)	268 (2.3)	37 (3.9)	269 (2.4)	8 (2.3)	273 (5.1)!
Iowa	28 (4.4)	284 (1.9)	23 (4.1)	283 (2.9)	39 (4.7)	281 (1.8)	10 (2.6)	286 (3.4)!
Kentucky	14 (3.0)	269 (5.2)!	16 (3.2)	270 (3.6)	63 (3.8)	258 (1.5)	7 (1.5)	261 (3.5)!
Louisiana	19 (3.6)	244 (4.5)	17 (3.3)	256 (4.7)	48 (4.5)	248 (2.7)	15 (3.3)	250 (4.5)!
Maine	29 (5.8)	279 (3.1)!	11 (3.0)	277 (3.2)!	45 (6.1)	279 (2.5)	15 (3.8)	273 (7.2)!
Maryland	23 (2.8)	270 (3.3)	16 (2.5)	262 (4.4)	46 (3.1)	264 (2.2)	15 (2.5)	262 (4.6)
Massachusetts	27 (4.1)	275 (3.0)	13 (2.7)	281 (3.7)!	43 (3.9)	272 (2.3)	16 (3.3)	261 (3.7)!
Michigan	21 (3.9)	262 (4.7)	22 (3.0)	269 (4.1)	40 (3.4)	267 (2.7)	17 (2.6)	267 (3.5)
Minnesota	33 (3.7)	281 (2.5)	31 (3.1)	287 (2.2)	22 (2.9)	281 (2.7)	13 (3.3)	276 (3.1)!
Mississippi	16 (3.0)	245 (4.1)	29 (4.4)	248 (4.1)	48 (4.7)	246 (2.9)	6 (2.1)	241 (3.6)!
Missouri	18 (3.9)	270 (2.9)!	27 (3.7)	278 (1.9)	36 (4.1)	266 (2.2)	19 (2.8)	271 (2.8)
Nebraska	31 (4.4)	278 (2.0)	28 (4.3)	276 (2.4)	29 (4.2)	279 (2.1)	11 (2.4)	278 (3.2)!
New Hampshire	35 (4.6)	279 (2.0)	27 (4.3)	276 (2.1)	28 (4.1)	279 (2.6)	10 (2.9)	278 (5.1)!
New Jersey	19 (4.0)	284 (4.6)!	20 (4.3)	272 (5.7)!	47 (5.2)	265 (3.4)	14 (2.9)	270 (5.2)!
New Mexico	22 (3.1)	264 (1.9)	16 (2.5)	259 (2.1)	45 (3.7)	255 (1.7)	17 (2.3)	259 (2.8)
New York	29 (3.4)	270 (2.7)	29 (3.7)	266 (3.7)	34 (3.9)	264 (3.7)	8 (1.6)	255 (7.9)
North Carolina	16 (3.3)	263 (3.8)!	33 (4.1)	263 (2.6)	45 (4.3)	252 (2.5)	7 (2.0)	247 (6.8)!
North Dakota	38 (3.7)	281 (1.8)	11 (3.1)	286 (4.2)!	39 (4.4)	280 (1.8)	12 (3.6)	287 (2.5)!
Ohio	13 (3.2)	277 (7.6)!	14 (3.3)	265 (5.8)!	60 (5.0)	268 (2.7)	13 (3.0)	267 (5.5)!
Oklahoma	18 (3.4)	271 (4.3)	22 (4.4)	268 (4.0)!	43 (4.5)	267 (2.5)	17 (3.3)	269 (3.6)!
Pennsylvania	37 (3.0)	274 (2.0)	26 (3.2)	275 (3.4)	25 (2.8)	266 (2.8)	12 (2.5)	269 (3.6)!
Rhode Island	35 (1.1)	270 (1.3)	16 (0.8)	269 (1.7)	36 (0.9)	261 (1.6)	13 (0.8)	260 (2.3)
South Carolina	27 (3.7)	268 (2.7)	24 (3.2)	261 (2.7)	42 (3.0)	256 (2.1)	8 (1.8)	259 (6.5)!
Tennessee	15 (3.2)	256 (5.4)!	12 (2.5)	262 (4.2)!	57 (4.3)	259 (1.8)	17 (3.5)	259 (6.0)!
Texas	23 (3.5)	266 (3.4)	23 (3.4)	271 (4.6)	37 (3.9)	256 (2.4)	17 (2.7)	260 (5.0)
Utah	25 (2.9)	275 (1.8)	26 (2.9)	278 (2.2)	31 (3.0)	271 (2.3)	18 (2.2)	275 (2.3)
Virginia	20 (3.2)	273 (3.3)	22 (3.1)	264 (3.1)	43 (3.8)	270 (2.5)	15 (2.6)	262 (5.8)
West Virginia	16 (3.2)	264 (2.3)!	19 (3.3)	261 (3.2)	43 (4.0)	259 (1.6)	21 (3.3)	251 (2.0)
Wisconsin	17 (3.6)	281 (4.6)!	20 (4.3)	280 (2.4)!	52 (4.8)	276 (1.6)	11 (2.1)	281 (3.9)
Wyoming	31 (3.3)	276 (2.5)	22 (3.3)	271 (2.0)	32 (2.7)	278 (2.1)	15 (1.8)	271 (2.1)
TERRITORIES								
Guam	16 (1.7)	242 (4.8)	26 (1.6)	241 (3.6)	51 (2.0)	239 (2.9)	6 (0.8)	*** (***)
Virgin Islands	19 (1.0)	220 (2.0)	6 (0.5)	*** (***)	45 (1.1)	219 (2.0)	30 (1.0)	228 (1.8)

TABLE A.47 | **Teachers' Reports on the Amount of Time Spent on In-Service Education in Mathematics or the Teaching of Mathematics During the Last Year**

PUBLIC SCHOOLS	Grade 4 - 1992					
	18 Hours or More		One to 18 Hours		None	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (2.5)	216 (1.9)	62 (2.6)	219 (1.2)	17 (2.0)	216 (2.0)
Northeast	14 (4.5)	220 (6.1)!	68 (5.9)	225 (3.0)	18 (3.9)	215 (4.1)!
Southeast	25 (4.5)	208 (4.3)	61 (6.2)	207 (2.1)	15 (3.4)	210 (2.5)!
Central	18 (4.4)	221 (3.5)!	62 (5.1)	225 (2.2)	20 (4.3)	223 (4.2)!
West	25 (5.9)	217 (3.1)!	59 (4.0)	218 (2.2)	16 (4.1)	213 (3.5)!
STATES						
Alabama	27 (3.1)	207 (2.4)	67 (3.3)	208 (1.9)	5 (1.9)	206 (5.1)!
Arizona	18 (2.1)	217 (2.5)	56 (3.2)	214 (1.7)	26 (2.8)	213 (2.0)
Arkansas	21 (2.5)	209 (2.4)	59 (3.4)	210 (1.3)	20 (2.5)	206 (2.5)
California	26 (3.2)	206 (2.5)	60 (3.5)	207 (1.9)	14 (1.9)	210 (2.7)
Colorado	18 (2.1)	222 (2.7)	59 (3.2)	220 (1.3)	22 (2.8)	218 (2.2)
Connecticut	17 (2.5)	228 (3.0)	74 (2.9)	227 (1.4)	10 (2.1)	227 (3.9)!
Delaware	17 (0.9)	220 (1.7)	70 (1.1)	216 (1.0)	13 (0.7)	218 (2.4)
Dist. Columbia	22 (0.6)	192 (1.5)	69 (0.8)	190 (0.9)	8 (0.6)	192 (3.3)
Florida	30 (2.6)	215 (2.4)	59 (2.9)	213 (2.0)	11 (1.9)	211 (2.9)
Georgia	15 (2.8)	214 (4.1)	53 (2.7)	213 (1.4)	32 (3.1)	214 (1.7)
Hawaii	26 (2.5)	214 (2.2)	66 (2.6)	212 (1.7)	8 (1.3)	217 (3.8)
Idaho	19 (2.3)	220 (1.7)	63 (3.3)	221 (1.3)	18 (2.5)	217 (1.5)
Indiana	16 (2.7)	219 (2.9)	59 (3.2)	220 (1.5)	25 (3.3)	219 (2.2)
Iowa	17 (2.9)	230 (2.6)	59 (3.4)	229 (1.4)	24 (3.1)	228 (1.9)
Kentucky	21 (3.1)	218 (2.6)	60 (3.7)	212 (1.5)	20 (3.1)	214 (2.2)
Louisiana	19 (3.1)	209 (3.4)	66 (3.3)	203 (1.7)	15 (2.7)	195 (4.1)
Maine	28 (4.1)	233 (1.8)	53 (4.2)	230 (1.4)	20 (2.3)	229 (1.9)
Maryland	25 (2.7)	220 (2.4)	61 (3.1)	217 (1.7)	13 (2.4)	213 (5.4)
Massachusetts	21 (2.8)	227 (2.6)	61 (3.9)	226 (1.8)	18 (2.8)	220 (3.0)
Michigan	30 (2.9)	217 (2.6)	58 (3.8)	222 (2.2)	11 (2.7)	213 (4.7)!
Minnesota	24 (3.1)	228 (1.9)	55 (3.5)	227 (1.4)	21 (3.1)	227 (2.8)
Mississippi	35 (3.6)	197 (2.3)	53 (3.7)	202 (1.5)	12 (2.0)	196 (3.8)
Missouri	16 (2.3)	224 (3.2)	59 (3.2)	221 (1.7)	26 (3.0)	220 (2.4)
Nebraska	14 (2.6)	226 (2.8)	61 (3.6)	224 (1.7)	24 (3.2)	225 (2.4)
New Hampshire	29 (3.3)	232 (1.9)	57 (3.4)	229 (1.6)	14 (2.3)	225 (2.6)
New Jersey	16 (2.5)	223 (4.3)	68 (3.4)	227 (1.8)	17 (3.2)	224 (3.9)!
New Mexico	11 (1.9)	215 (2.9)	60 (3.2)	212 (2.0)	29 (3.4)	210 (2.0)
New York	18 (2.8)	216 (3.8)	46 (3.1)	214 (2.1)	36 (3.8)	221 (2.2)
North Carolina	20 (2.4)	213 (2.3)	62 (2.6)	212 (1.1)	19 (2.4)	212 (3.2)
North Dakota	14 (2.4)	227 (1.4)	66 (3.3)	228 (1.1)	21 (3.2)	227 (1.5)
Ohio	18 (2.4)	214 (2.8)	64 (2.8)	219 (1.3)	17 (2.6)	216 (2.5)
Oklahoma	20 (2.9)	219 (2.0)	65 (3.3)	219 (1.3)	15 (2.2)	219 (2.3)
Pennsylvania	16 (2.4)	221 (2.5)	57 (3.7)	223 (1.9)	27 (3.3)	225 (2.4)
Rhode Island	19 (2.4)	216 (3.6)	57 (3.0)	214 (1.8)	25 (2.9)	213 (3.4)
South Carolina	23 (2.8)	215 (2.5)	67 (3.1)	211 (1.3)	10 (1.7)	204 (2.3)
Tennessee	20 (2.2)	211 (3.5)	61 (3.4)	209 (1.4)	18 (2.6)	209 (2.3)
Texas	28 (3.2)	218 (2.2)	60 (3.2)	216 (1.6)	12 (2.4)	211 (4.2)!
Utah	23 (3.2)	225 (2.4)	56 (3.4)	223 (1.1)	21 (2.3)	218 (2.1)
Virginia	18 (2.8)	221 (3.2)	62 (2.9)	219 (1.8)	20 (2.3)	220 (2.2)
West Virginia	22 (2.6)	216 (2.0)	63 (3.3)	212 (1.4)	15 (2.6)	215 (2.0)
Wisconsin	20 (3.1)	230 (2.6)	56 (3.2)	228 (1.5)	25 (2.9)	225 (1.9)
Wyoming	20 (3.0)	225 (2.0)	55 (3.5)	224 (1.1)	25 (2.9)	226 (1.6)
TERRITORY						
Guam	21 (1.3)	201 (2.2)	46 (1.2)	189 (1.2)	32 (1.5)	187 (1.7)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.47 | **Teachers' Reports on the Amount of Time Spent on In-Service Education in Mathematics or the Teaching of Mathematics During the Last Year (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	16 Hours or More		One to 15 Hours		None	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	47 (2.6)	268 (1.7)	45 (2.6)	266 (1.5)	8 (1.5)	267 (3.8)
Northeast	38 (5.9)	271 (3.3)	51 (5.7)	263 (2.9)	11 (5.6)	270 (6.9)‡
Southeast	45 (3.9)	261 (2.6)	47 (3.7)	260 (2.0)	8 (2.3)	263 (4.6)‡
Central	55 (4.4)	273 (3.7)	41 (4.5)	279 (2.9)	4 (1.8)	*** (***)
West	49 (6.1)	267 (3.2)	42 (5.8)	265 (3.4)	9 (2.0)	270 (4.5)‡
STATES						
Alabama	50 (4.9)»	255 (2.0)	47 (4.7)	249 (2.8)	3 (1.1)«	232 (6.8)‡
Arizona	39 (3.9)»	264 (1.9)	48 (3.7)	266 (2.0)	13 (2.4)«	261 (2.9)
Arkansas	47 (4.0)	259 (2.0)	46 (4.0)	253 (1.8)	8 (2.2)	249 (4.6)‡
California	61 (3.4)»	264 (2.3)	32 (3.4)<	256 (2.9)	8 (1.7)	258 (6.4)‡
Colorado	37 (3.4)	271 (1.7)	56 (3.1)	273 (1.6)	8 (1.6)	262 (4.0)‡
Connecticut	50 (3.6)	276 (2.5)	46 (3.6)	272 (1.9)	4 (1.0)	262 (7.6)‡
Delaware	38 (0.9)<	260 (1.5)	49 (1.0)>	266 (1.3)>	13 (0.7)	254 (2.4)
Dist. Columbia	48 (0.9)«	233 (1.4)	49 (0.8)»	234 (0.9)»	3 (0.3)«	*** (***)
Florida	50 (2.6)	263 (1.8)	40 (2.7)	257 (2.2)	10 (2.4)	251 (5.8)‡
Georgia	34 (2.7)	259 (2.7)	54 (3.0)	260 (1.6)	12 (2.5)	252 (2.9)‡
Hawaii	44 (0.8)»	261 (1.4)>	47 (0.8)	259 (1.3)»	10 (0.5)«	229 (2.5)«
Idaho	40 (2.8)	277 (1.3)	47 (2.9)	272 (1.2)	13 (2.4)	273 (2.4)»
Indiana	33 (4.1)>	273 (2.2)	60 (4.3)	268 (1.4)	7 (1.5)«	266 (4.5)‡
Iowa	34 (4.3)	284 (1.4)	57 (4.3)	283 (1.2)>	9 (2.4)	277 (4.8)‡
Kentucky	33 (3.9)>	268 (2.5)	57 (4.3)	261 (1.3)	10 (2.6)«	252 (3.3)‡
Louisiana	34 (3.8)	253 (3.2)	60 (4.0)	248 (2.1)	6 (1.7)	244 (5.9)‡
Maine[1]	46 (4.4)	279 (1.8)	43 (4.2)	277 (1.6)	11 (2.7)	278 (3.3)‡
Maryland	51 (3.9)	268 (2.3)	42 (3.9)	262 (2.4)	7 (1.9)	266 (4.7)‡
Massachusetts[1]	28 (3.1)	277 (2.3)	56 (3.9)	271 (1.9)	16 (2.9)	266 (3.1)
Michigan	40 (4.0)>	266 (3.1)	50 (4.0)	268 (2.1)	10 (2.0)«	265 (5.1)‡
Minnesota	53 (3.6)»	283 (1.1)»	44 (3.4)	282 (1.7)>	3 (1.1)<	262 (8.2)‡
Mississippi[1]	40 (4.2)	244 (2.3)	55 (4.3)	247 (1.9)	5 (1.4)	241 (6.9)‡
Missouri[1]	40 (3.7)	272 (1.9)	46 (4.1)	271 (1.6)	13 (2.7)	267 (2.9)‡
Nebraska	46 (4.1)	276 (1.8)	47 (4.2)	278 (1.5)	6 (1.9)<	280 (4.2)‡
New Hampshire	56 (3.4)«	279 (1.3)	40 (3.1)>	277 (1.4)»	4 (1.6)	266 (3.5)‡
New Jersey	45 (4.7)>	274 (2.9)	52 (4.7)	269 (2.5)	3 (1.1)«	*** (***)
New Mexico	40 (3.1)»	258 (1.6)	51 (3.1)	261 (1.0)	9 (1.5)«	256 (3.6)
New York	27 (2.7)	255 (4.5)	58 (3.1)	268 (2.6)	15 (2.2)	273 (3.7)»
North Carolina	40 (3.2)	262 (2.0)>	53 (3.3)>	257 (1.7)»	7 (1.2)	243 (4.6)
North Dakota	34 (3.3)>	286 (1.7)	59 (3.6)	281 (1.3)	7 (1.5)«	277 (3.7)‡
Ohio	45 (5.3)»	269 (2.5)	51 (5.4)	268 (2.4)	4 (1.4)«	263 (4.8)‡
Oklahoma	30 (3.5)	267 (2.5)	67 (3.6)	268 (1.2)	3 (0.8)«	254 (7.0)‡
Pennsylvania	35 (3.4)	273 (2.9)	51 (3.7)	270 (1.8)	14 (2.6)	267 (4.1)
Rhode Island	53 (0.8)»	266 (0.9)»	42 (0.9)«	265 (1.2)	5 (0.4)«	259 (3.7)
South Carolina[1]	45 (3.5)	263 (2.0)	48 (3.4)	258 (1.7)	6 (1.8)	254 (4.7)‡
Tennessee[1]	49 (3.7)	261 (2.3)	43 (3.6)	257 (1.8)	8 (2.3)	244 (2.7)‡
Texas	56 (3.5)>	266 (2.1)	36 (3.4)<	263 (2.0)>	8 (1.9)	257 (4.1)‡
Utah[1]	37 (2.9)	274 (1.4)	50 (3.3)	273 (1.2)	13 (1.7)	275 (2.5)
Virginia	40 (3.1)	271 (2.0)	51 (3.1)	266 (1.9)	9 (1.8)	256 (3.7)‡
West Virginia	35 (3.6)>	262 (1.8)	61 (3.8)	257 (1.3)	4 (1.3)«	244 (5.7)‡
Wisconsin	44 (4.6)	280 (2.7)	52 (5.0)	278 (1.7)	4 (1.5)<	264 (4.6)‡
Wyoming	34 (2.6)	273 (1.7)	53 (2.9)>	276 (1.2)	13 (2.1)<	272 (2.3)
TERRITORIES						
Guam	23 (0.8)«	250 (1.9)»	64 (1.1)»	229 (1.2)<	13 (0.9)«	235 (3.5)
Virgin Islands	37 (0.9)»	216 (1.9)	59 (0.8)»	222 (1.1)	4 (0.5)«	*** (***)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.48 | **Teachers' Reports on the Number of Students in Their Mathematics Classes**

PUBLIC SCHOOLS	Grade 4 - 1992					
	1 to 20		21 to 25		26 or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	17 (2.9)	218 (3.5)	39 (4.0)	216 (1.7)	43 (4.8)	219 (1.5)
Northeast	12 (4.4)	218(15.5)!	52 (8.1)	219 (3.4)	37 (8.1)	222 (4.0)!
Southeast	18 (5.3)	206 (8.1)!	39 (4.1)	208 (3.5)	43 (7.8)	210 (1.8)
Central	18 (6.5)	231 (5.5)!	35(11.2)	223 (4.0)!	47(13.0)	223 (2.4)!
West	21 (5.9)	216 (5.1)!	33 (6.0)	215 (3.1)	46 (7.2)	222 (3.3)
STATES						
Alabama	8 (1.8)	197 (3.8)!	36 (5.0)	206 (3.0)	56 (5.0)	210 (2.2)
Arizona	8 (2.0)	208 (5.6)!	27 (3.4)	211 (2.6)	66 (3.9)	215 (1.3)
Arkansas	26 (3.6)	207 (1.8)	46 (3.9)	211 (1.8)	28 (4.3)	210 (2.6)
California	5 (1.2)	213 (6.9)!	9 (2.9)	208 (4.8)!	85 (3.0)	207 (1.9)
Colorado	15 (2.5)	218 (2.6)	43 (3.4)	220 (2.0)	42 (3.8)	220 (1.7)
Connecticut	33 (3.7)	228 (2.5)	54 (4.2)	228 (2.0)	13 (3.2)	221 (5.1)!
Delaware	18 (0.9)	204 (1.7)	37 (1.3)	216 (1.1)	45 (1.4)	224 (1.3)
Dist. Columbia	38 (1.0)	193 (1.2)	45 (0.8)	190 (1.2)	17 (0.9)	185 (2.6)
Florida	10 (1.4)	200 (4.5)	19 (2.8)	215 (3.2)	71 (3.3)	214 (1.3)
Georgia	18 (2.2)	203 (2.7)	44 (3.9)	216 (2.4)	39 (4.2)	219 (2.6)
Hawaii	14 (2.0)	203 (3.4)	25 (3.0)	209 (2.2)	61 (3.5)	216 (1.9)
Idaho	7 (2.2)	217 (2.8)!	39 (3.9)	221 (1.5)	53 (3.7)	221 (1.4)
Indiana	17 (3.0)	217 (2.7)	50 (4.4)	220 (1.6)	33 (4.4)	221 (1.8)
Iowa	29 (3.2)	227 (2.0)	47 (4.1)	231 (1.4)	25 (4.2)	229 (2.3)
Kentucky	18 (3.4)	209 (2.5)	50 (4.7)	215 (1.9)	32 (4.1)	214 (1.8)
Louisiana	12 (2.3)	198 (4.8)	40 (4.3)	207 (2.4)	47 (4.6)	201 (2.8)
Maine	51 (4.6)	230 (1.4)	43 (4.5)	232 (2.0)	6 (2.3)	227 (4.1)!
Maryland	16 (2.7)	224 (3.5)	30 (3.4)	219 (2.6)	55 (3.7)	216 (2.3)
Massachusetts	24 (3.7)	223 (3.3)	46 (4.5)	227 (1.9)	30 (5.1)	228 (2.6)
Michigan	8 (1.7)	222 (3.8)!	29 (4.0)	224 (3.0)	63 (4.3)	216 (2.2)
Minnesota	13 (2.3)	223 (3.3)	35 (4.3)	227 (2.4)	51 (4.4)	230 (1.5)
Mississippi	19 (2.6)	196 (3.0)	45 (3.8)	200 (1.9)	36 (3.4)	204 (2.6)
Missouri	19 (3.1)	217 (2.5)	46 (4.8)	224 (2.6)	35 (4.9)	222 (2.3)
Nebraska	36 (4.0)	223 (2.4)	42 (4.4)	223 (2.1)	22 (3.5)	233 (2.9)
New Hampshire	22 (3.0)	226 (1.8)	47 (3.9)	229 (1.7)	31 (3.9)	232 (2.9)
New Jersey	31 (4.4)	231 (2.9)	46 (5.0)	225 (2.4)	23 (4.4)	223 (4.2)
New Mexico	13 (2.8)	207 (3.0)!	44 (4.5)	210 (2.0)	44 (4.5)	215 (2.1)
New York	13 (2.4)	216 (4.9)	43 (4.1)	224 (2.2)	44 (4.1)	215 (2.1)
North Carolina	16 (2.5)	205 (3.7)	40 (3.9)	212 (1.7)	44 (4.0)	216 (1.9)
North Dakota	36 (4.2)	228 (1.5)	34 (4.3)	227 (1.6)	30 (3.8)	231 (1.4)
Ohio	10 (2.1)	219 (4.1)	48 (4.1)	219 (2.0)	42 (4.5)	217 (2.0)
Oklahoma	41 (3.7)	219 (1.5)	52 (4.0)	221 (1.5)	7 (2.5)	214 (3.6)!
Pennsylvania	16 (3.0)	224 (4.0)	39 (3.6)	226 (2.5)	46 (4.0)	222 (2.3)
Rhode Island	19 (3.1)	217 (2.4)	47 (4.3)	218 (1.6)	34 (3.5)	208 (3.9)
South Carolina	21 (2.6)	206 (2.5)	40 (3.8)	213 (2.0)	39 (4.0)	213 (2.0)
Tennessee	19 (2.8)	207 (2.5)	39 (4.4)	209 (2.4)	43 (4.4)	212 (2.4)
Texas	53 (4.4)	214 (1.8)	46 (4.3)	221 (2.5)	1 (0.8)	*** (***)
Utah	3 (1.1)	213 (6.1)!	20 (3.0)	219 (1.8)	78 (3.4)	225 (1.1)
Virginia	18 (3.3)	210 (3.2)	39 (3.6)	219 (2.2)	43 (3.7)	226 (2.5)
West Virginia	34 (3.4)	211 (1.9)	48 (3.6)	215 (1.9)	18 (3.1)	217 (2.7)
Wisconsin	26 (3.5)	228 (1.9)	36 (4.3)	228 (1.9)	38 (4.5)	230 (2.2)
Wyoming	28 (3.7)	225 (1.9)	50 (3.9)	224 (1.1)	22 (3.6)	226 (2.2)
TERRITORY						
Guam	22 (1.0)	192 (2.3)	57 (1.1)	195 (1.2)	21 (0.7)	184 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.48 | **Teachers' Reports on the Number of Students in Their Mathematics Classes (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	1 to 20		21 to 25		26 or More	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	22 (2.1)	262 (2.3)	29 (2.3)	273 (2.6)	49 (3.2)	267 (1.3)
Northeast	18 (3.5)	253 (4.5)	35 (5.5)	277 (8.1)	47 (6.1)	265 (3.7)
Southeast	23 (3.7)	257 (4.3)	22 (5.2)	261 (3.9)!	56 (7.5)	263 (1.7)
Central	26 (4.9)	273 (3.8)!	36 (5.6)	276 (4.2)!	38 (6.9)	276 (2.9)
West	21 (4.1)	260 (4.4)	24 (2.8)	274 (3.1)	54 (4.8)	267 (2.5)
STATES						
Alabama	23 (2.8)	243 (3.1)	30 (3.2)	250 (4.1)	47 (3.9)	257 (2.0)
Arizona	13 (1.7)	257 (2.8)	27 (2.6)	258 (2.2)	59 (2.8)	268 (1.8)
Arkansas	41 (3.3)	253 (1.8)	37 (2.3)	258 (2.1)	22 (2.5)	258 (2.2)
California	8 (1.6)	261 (8.5)	12 (1.9)	267 (4.1)	80 (2.6)	261 (1.7)
Colorado	19 (2.1)	270 (2.5)	28 (2.2)	268 (2.2)	52 (2.7)	274 (1.5)
Connecticut	40 (2.6)	269 (1.7)	39 (2.2)	274 (2.6)	21 (2.4)	284 (2.7)
Delaware	13 (0.8)	241 (3.2)	30 (0.9)	260 (1.4)	57 (1.3)	269 (1.0)
Dist. Columbia	41 (1.4)	231 (2.1)	34 (1.3)	233 (1.9)	24 (1.1)	243 (1.8)
Florida	19 (1.8)	249 (2.6)	22 (2.1)	257 (2.6)	59 (2.9)	264 (1.8)
Georgia	21 (2.2)	244 (3.5)	24 (2.4)	259 (2.7)	55 (3.1)	263 (1.6)
Hawaii	23 (0.8)	235 (2.3)	29 (1.0)	253 (1.6)	47 (1.0)	271 (1.1)
Idaho	23 (2.2)	271 (2.0)	27 (1.9)	271 (1.7)	50 (2.3)	279 (1.3)
Indiana	23 (2.7)	266 (2.5)	33 (2.6)	273 (2.0)	43 (2.7)	270 (1.9)
Iowa	33 (3.2)	281 (1.7)	38 (3.1)	284 (1.8)	29 (3.1)	284 (2.1)
Kentucky	20 (2.5)	250 (3.3)	27 (2.5)	262 (2.4)	53 (2.8)	267 (1.7)
Louisiana	18 (2.6)	254 (4.0)	28 (2.9)	250 (2.7)	54 (3.3)	249 (2.2)
Maine	54 (3.6)	277 (1.6)	34 (2.7)	279 (1.6)	13 (2.3)	282 (2.5)
Maryland	15 (1.3)	255 (3.6)	23 (1.9)	265 (2.4)	63 (2.3)	268 (2.0)
Massachusetts	34 (2.9)	265 (2.2)	35 (2.6)	275 (2.3)	32 (2.8)	277 (2.7)
Michigan	14 (1.5)	264 (4.1)	27 (2.8)	273 (3.4)	58 (3.3)	265 (2.0)
Minnesota	15 (2.8)	271 (2.4)	23 (3.1)	278 (2.1)	61 (3.5)	286 (1.6)
Mississippi	24 (2.7)	238 (3.1)	28 (2.4)	248 (3.2)	48 (3.0)	248 (1.9)
Missouri	27 (2.6)	261 (2.0)	34 (2.7)	272 (2.0)	39 (3.0)	277 (2.2)
Nebraska	43 (3.4)	277 (1.9)	39 (3.3)	276 (2.0)	18 (2.5)	280 (3.3)
New Hampshire	40 (2.6)	275 (1.6)	37 (2.4)	276 (1.8)	23 (2.0)	285 (2.7)
New Jersey	45 (4.0)	274 (2.5)	31 (2.8)	273 (3.3)	25 (3.3)	271 (3.5)
New Mexico	22 (2.1)	257 (2.2)	30 (1.9)	258 (1.6)	49 (2.1)	261 (1.4)
New York	25 (2.9)	269 (3.2)	28 (2.5)	280 (2.8)	46 (3.3)	255 (3.3)
North Carolina	29 (2.9)	251 (2.5)	34 (2.3)	256 (2.2)	37 (2.9)	264 (2.1)
North Dakota	38 (4.1)	280 (2.6)	28 (3.1)	283 (1.5)	34 (3.1)	286 (1.5)
Ohio	20 (2.7)	269 (4.0)	35 (2.8)	269 (2.5)	44 (3.3)	270 (3.2)
Oklahoma	40 (3.0)	264 (1.8)	28 (2.4)	268 (2.0)	31 (3.4)	271 (2.4)
Pennsylvania	18 (1.8)	257 (2.8)	32 (2.5)	275 (2.4)	49 (3.1)	274 (2.1)
Rhode Island	28 (1.0)	259 (1.5)	49 (1.3)	266 (1.1)	24 (1.1)	271 (1.7)
South Carolina	32 (2.3)	248 (2.0)	30 (2.0)	265 (2.1)	38 (2.0)	268 (1.9)
Tennessee	15 (2.0)	236 (3.4)	20 (2.7)	258 (2.5)	65 (3.0)	263 (1.8)
Texas	32 (2.3)	260 (2.3)	37 (2.4)	266 (1.8)	31 (2.7)	267 (3.2)
Utah	9 (1.5)	255 (5.1)	14 (1.4)	271 (2.4)	77 (1.8)	276 (1.0)
Virginia	24 (1.7)	258 (2.0)	34 (2.1)	267 (2.1)	42 (2.6)	273 (2.0)
West Virginia	34 (2.7)	255 (1.8)	32 (2.5)	256 (2.1)	34 (3.1)	264 (1.8)
Wisconsin	35 (4.9)	276 (3.7)	32 (3.6)	281 (2.1)	33 (3.5)	278 (2.2)
Wyoming	37 (2.9)	268 (1.7)	34 (2.8)	277 (1.3)	29 (2.4)	280 (1.6)
TERRITORIES						
Guam	10 (1.1)	221 (2.4)	39 (1.7)	231 (1.9)	52 (1.4)	240 (1.6)
Virgin Islands	25 (1.0)	223 (1.8)	29 (1.2)	223 (1.7)	47 (0.8)	220 (1.4)

TABLE A.49 | **Teachers' Reports on Students Being Assigned to Mathematics Classes Based on Ability Grouping**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Yes, Students Grouped by Ability		No, Students Not Grouped by Ability	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	27 (3.0)	220 (2.5)	73 (3.0)	216 (1.2)
Northeast	40 (7.1)	222 (4.6)	60 (7.1)	219 (3.1)
Southeast	18 (3.4)	201 (5.3)!	82 (3.4)	209 (2.1)
Central	28 (7.3)	228 (2.8)!	72 (7.3)	222 (2.3)
West	24 (5.7)	224 (6.7)!	76 (5.7)	216 (2.1)
STATES				
Alabama	19 (3.6)	200 (2.9)	81 (3.6)	209 (1.7)
Arizona	23 (3.9)	219 (3.0)	77 (3.9)	213 (1.3)
Arkansas	20 (3.3)	211 (2.8)	80 (3.3)	209 (1.2)
California	14 (2.4)	218 (5.6)	86 (2.4)	206 (1.7)
Colorado	27 (4.0)	222 (2.5)	73 (4.0)	219 (1.5)
Connecticut	25 (3.9)	233 (2.5)	75 (3.9)	226 (1.6)
Delaware	57 (0.9)	219 (1.1)	43 (0.9)	215 (1.4)
Dist. Columbia	22 (0.8)	191 (1.8)	78 (0.8)	191 (1.0)
Florida	17 (2.6)	215 (3.2)	83 (2.6)	212 (1.4)
Georgia	32 (4.7)	211 (2.5)	68 (4.7)	215 (2.2)
Hawaii	43 (4.9)	212 (2.1)	57 (4.9)	214 (2.0)
Idaho	6 (1.6)	218 (3.2)!	94 (1.6)	220 (1.0)
Indiana	22 (3.5)	224 (2.5)	78 (3.5)	218 (1.1)
Iowa	12 (2.4)	227 (3.7)!	88 (2.4)	229 (1.1)
Kentucky	25 (4.3)	215 (2.9)	75 (4.3)	213 (1.1)
Louisiana	22 (3.7)	207 (3.5)	78 (3.7)	201 (1.7)
Maine	19 (3.6)	227 (3.2)	81 (3.6)	231 (1.1)
Maryland	58 (4.1)	222 (1.7)	42 (4.1)	212 (2.5)
Massachusetts	18 (3.8)	227 (3.0)!	82 (3.8)	226 (1.5)
Michigan	10 (2.4)	219 (4.5)!	90 (2.4)	219 (2.0)
Minnesota	38 (4.1)	225 (1.9)	62 (4.1)	228 (1.5)
Mississippi	30 (4.1)	195 (2.3)	70 (4.1)	202 (1.7)
Missouri	16 (3.2)	222 (4.5)!	84 (3.2)	222 (1.3)
Nebraska	25 (3.2)	229 (2.2)	75 (3.2)	223 (1.7)
New Hampshire	26 (4.4)	233 (2.3)	74 (4.4)	228 (1.3)
New Jersey	39 (4.8)	232 (2.2)	61 (4.8)	224 (2.2)
New Mexico	11 (3.1)	213 (4.3)!	89 (3.1)	212 (1.3)
New York	36 (4.8)	212 (2.3)	64 (4.8)	220 (1.9)
North Carolina	21 (3.8)	216 (3.1)	79 (3.8)	211 (1.2)
North Dakota	6 (2.4)	224 (4.2)!	94 (2.4)	228 (0.8)
Ohio	24 (4.4)	224 (3.0)	76 (4.4)	215 (1.4)
Oklahoma	17 (2.7)	221 (2.7)	83 (2.7)	219 (1.2)
Pennsylvania	42 (4.3)	226 (2.2)	58 (4.3)	221 (1.8)
Rhode Island	25 (4.4)	223 (3.0)	75 (4.4)	211 (1.9)
South Carolina	33 (3.9)	211 (2.0)	67 (3.9)	212 (1.4)
Tennessee	20 (3.2)	206 (2.4)	80 (3.2)	211 (1.7)
Texas	28 (4.4)	219 (3.4)	72 (4.4)	216 (1.8)
Utah	27 (3.8)	225 (2.6)	73 (3.8)	222 (1.1)
Virginia	29 (3.7)	222 (2.9)	71 (3.7)	219 (1.6)
West Virginia	23 (3.2)	213 (2.3)	77 (3.2)	214 (1.4)
Wisconsin	28 (4.4)	231 (2.2)	72 (4.4)	227 (1.3)
Wyoming	10 (2.8)	218 (3.3)!	90 (2.8)	225 (1.1)
TERRITORY				
Guam	12 (0.9)	183 (3.0)	88 (0.9)	192 (1.0)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.49 | **Teachers' Reports on Students Being Assigned to Mathematics Classes Based on Ability Grouping (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992			
	Yes, Students Grouped by Ability		No, Students Not Grouped by Ability	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	61 (2.6)	274 (1.6)	39 (2.6)	258 (1.4)
Northeast	78 (5.5)	273 (3.8)	22 (5.5)	249 (4.8)!
Southeast	50 (4.3)	268 (2.6)	50 (4.3)	255 (2.1)
Central	60 (5.4)	282 (2.8)	40 (5.4)	263 (3.9)
West	59 (5.0)	273 (3.1)	41 (5.0)	260 (1.7)
STATES				
Alabama	49 (3.7)	255 (2.2)	51 (3.7)	249 (2.5)
Arizona	57 (3.7)<	271 (1.8)»	43 (3.7)>	256 (2.4)
Arkansas	57 (4.0)	260 (1.7)	43 (4.0)	250 (1.5)
California	61 (3.5)<	269 (2.0)>	39 (3.5)>	249 (3.2)
Colorado	57 (3.8)	278 (1.5)>	43 (3.8)	262 (2.1)
Connecticut	75 (3.5)<	278 (1.2)>	25 (3.5)>	260 (3.3)
Delaware	84 (0.5)	264 (1.2)	16 (0.5)	252 (1.6)»
Dist. Columbia	42 (1.0)«	248 (1.7)»	58 (1.0)»	224 (1.3)
Florida	69 (2.8)<	264 (1.9)	31 (2.8)>	250 (2.4)
Georgia	74 (3.2)	260 (1.6)	26 (3.2)	253 (2.7)
Hawaii	81 (0.6)«	261 (1.0)»	19 (0.6)»	243 (1.7)>
Idaho	67 (3.5)	274 (1.1)	33 (3.5)	276 (1.8)>
Indiana	63 (3.9)	276 (1.7)	37 (3.9)	260 (1.6)
Iowa	48 (4.7)	285 (1.4)»	52 (4.7)	281 (1.6)
Kentucky	61 (3.9)	266 (1.9)>	39 (3.9)	256 (1.5)
Louisiana	43 (4.4)	257 (2.7)	57 (4.4)	244 (1.8)
Maine[1]	50 (4.3)	283 (1.7)	50 (4.3)	274 (1.7)
Maryland	84 (2.5)«	269 (1.6)>	16 (2.5)»	249 (2.7)
Massachusetts[1]	81 (2.8)	276 (1.5)	19 (2.8)	257 (4.1)
Michigan	58 (4.0)	274 (2.1)	42 (4.0)	257 (2.7)
Minnesota	52 (4.1)	287 (1.6)»	48 (4.1)	275 (1.3)
Mississippi[1]	44 (3.5)	255 (2.1)	56 (3.5)	239 (1.6)
Missouri[1]	56 (4.0)	275 (1.4)	44 (4.0)	265 (1.7)
Nebraska	51 (4.5)	279 (1.7)	49 (4.5)	276 (1.8)
New Hampshire	57 (3.9)«	281 (1.4)»	43 (3.9)»	273 (1.4)>
New Jersey	72 (3.7)	278 (1.9)	28 (3.7)	255 (3.4)
New Mexico	65 (3.5)	264 (1.2)	35 (3.5)	252 (1.7)
New York	67 (3.7)	269 (2.4)	33 (3.7)	258 (3.7)>
North Carolina	70 (3.4)<	261 (1.3)»	30 (3.4)>	250 (2.3)>
North Dakota	25 (2.9)	288 (2.8)	75 (2.9)	281 (1.3)
Ohio	55 (4.2)<	277 (2.3)>	45 (4.2)>	258 (1.9)
Oklahoma	55 (4.3)	271 (1.5)	45 (4.3)	263 (1.8)
Pennsylvania	69 (3.5)<	275 (1.7)	31 (3.5)>	260 (3.4)
Rhode Island	75 (0.7)«	269 (0.9)»	25 (0.7)»	252 (1.8)»
South Carolina[1]	80 (3.3)	262 (1.3)	20 (3.3)	254 (2.6)
Tennessee[1]	56 (3.8)	261 (1.9)	44 (3.8)	255 (2.2)
Texas	50 (3.3)<	272 (2.3)»	50 (3.3)>	256 (1.7)
Utah[1]	81 (2.4)	275 (0.9)	19 (2.4)	269 (2.0)
Virginia	66 (3.1)«	272 (1.5)>	34 (3.1)»	259 (1.7)
West Virginia	64 (3.4)	263 (1.5)	36 (3.4)	251 (1.7)
Wisconsin	44 (4.9)	285 (2.0)	56 (4.9)	274 (2.0)
Wyoming	61 (2.9)	277 (1.2)>	39 (2.9)	271 (1.4)
TERRITORIES				
Guam	85 (0.7)<	238 (1.3)»	15 (0.7)>	217 (2.3)«
Virgin Islands	55 (0.8)»	227 (1.3)	45 (0.8)«	215 (1.2)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.50 | **Teachers' Reports on the Ability Levels of Students in Their Mathematics Classes**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Primarily High Ability		Primarily Average Ability		Primarily Low Ability		Ability Widely Mixed	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	8 (1.4)	240 (3.2)	39 (2.3)	220 (1.4)	13 (1.2)	195 (2.0)	40 (2.7)	217 (1.4)
Northeast	15 (5.1)	243 (4.5)!	38 (4.6)	223 (4.2)	14 (2.3)	190 (3.4)	34 (4.2)	220 (2.9)
Southeast	3 (1.1)	*** (***)	36 (5.0)	211 (2.6)	14 (2.3)	188 (3.4)	47 (5.3)	209 (2.5)
Central	9 (2.3)	234 (5.3)!	43 (4.6)	226 (3.0)	10 (2.8)	211 (5.6)!	38 (6.4)	222 (2.5)
West	7 (2.3)	242(13.5)!	39 (3.9)	221 (3.1)	13 (2.1)	194 (3.7)	40 (4.7)	218 (1.8)
STATES								
Alabama	5 (1.5)	225 (5.8)!	41 (3.7)	212 (2.4)	17 (2.4)	190 (2.4)	37 (3.7)	208 (2.0)
Arizona	9 (1.5)	237 (3.2)	33 (2.9)	216 (2.0)	13 (2.2)	200 (2.7)	45 (3.7)	212 (1.7)
Arkansas	8 (1.7)	224 (2.8)!	46 (3.4)	210 (1.5)	12 (1.7)	194 (3.2)	34 (3.1)	210 (1.6)
California	6 (1.6)	239 (3.6)!	35 (2.7)	209 (2.4)	13 (2.4)	193 (3.6)	45 (3.7)	205 (2.0)
Colorado	6 (1.2)	239 (3.2)	33 (3.0)	222 (1.7)	12 (1.9)	205 (2.9)	49 (3.7)	220 (1.8)
Connecticut	10 (2.0)	249 (3.4)	32 (2.9)	226 (1.6)	9 (1.4)	208 (4.2)	49 (3.9)	227 (1.9)
Delaware	17 (0.6)	244 (1.8)	41 (1.0)	219 (1.0)	21 (1.1)	196 (1.9)	22 (0.9)	216 (1.9)
Dist. Columbia	2 (0.1)	*** (***)	32 (1.0)	192 (1.3)	21 (0.7)	184 (1.5)	45 (1.1)	192 (1.5)
Florida	6 (1.3)	243 (4.0)!	43 (2.5)	214 (1.8)	11 (1.3)	196 (3.3)	40 (3.1)	210 (1.6)
Georgia	7 (1.5)	236 (3.2)!	40 (2.6)	219 (1.9)	20 (2.6)	191 (2.4)	34 (3.3)	216 (2.5)
Hawaii	11 (1.6)	235 (3.2)	36 (2.5)	217 (1.6)	20 (2.4)	195 (2.2)	32 (3.4)	212 (2.2)
Idaho	7 (1.5)	220 (3.3)!	41 (3.0)	220 (1.6)	7 (1.8)	212 (3.0)!	45 (3.4)	222 (1.2)
Indiana	10 (1.5)	238 (3.2)	41 (3.6)	220 (1.5)	11 (2.4)	207 (3.0)!	38 (3.9)	218 (1.7)
Iowa	6 (1.5)	240 (3.8)!	43 (3.7)	228 (1.7)	7 (1.6)	214 (3.3)!	43 (4.1)	231 (1.4)
Kentucky	8 (1.8)	234 (5.3)!	33 (3.3)	215 (1.8)	19 (2.6)	200 (2.5)	40 (4.1)	214 (1.7)
Louisiana	7 (1.5)	230 (3.7)!	39 (2.9)	207 (2.2)	18 (2.3)	184 (3.3)	35 (3.3)	201 (2.5)
Maine	4 (1.0)	247 (5.4)!	43 (3.9)	231 (1.4)	11 (1.8)	216 (3.7)	42 (4.4)	232 (1.6)
Maryland	20 (1.9)	243 (2.4)	36 (2.3)	217 (1.8)	18 (2.2)	201 (2.9)	26 (2.9)	212 (2.4)
Massachusetts	8 (1.8)	249 (3.0)!	39 (3.3)	228 (1.7)	7 (1.7)	199 (3.6)!	45 (4.3)	225 (2.1)
Michigan	6 (1.8)	243 (5.2)!	37 (3.6)	225 (1.4)	8 (1.7)	195 (6.7)!	49 (3.9)	215 (2.2)
Minnesota	12 (1.6)	238 (3.7)	41 (3.4)	227 (1.6)	10 (1.6)	216 (3.3)	37 (3.8)	227 (2.1)
Mississippi	3 (0.8)	234 (4.9)!	39 (3.4)	206 (2.4)	21 (2.8)	185 (2.1)	37 (3.2)	199 (2.0)
Missouri	7 (1.5)	242 (4.0)!	38 (3.1)	227 (1.3)	11 (2.0)	204 (4.8)!	44 (3.9)	218 (2.3)
Nebraska	10 (1.7)	247 (3.2)	36 (3.1)	227 (1.6)	15 (2.5)	211 (2.4)	39 (3.6)	223 (2.3)
New Hampshire	9 (2.2)	248 (3.8)!	39 (3.2)	228 (1.6)	8 (1.3)	217 (3.2)	45 (3.9)	228 (2.0)
New Jersey	14 (2.3)	249 (3.2)	39 (3.7)	226 (2.2)	14 (2.0)	210 (3.9)	34 (4.1)	226 (2.4)
New Mexico	4 (1.6)	226 (6.8)!	46 (4.4)	214 (1.8)	12 (2.5)	201 (3.4)!	39 (4.3)	212 (1.8)
New York	11 (1.9)	235 (3.7)	34 (3.3)	221 (2.1)	15 (2.1)	189 (3.1)	40 (4.2)	219 (2.2)
North Carolina	8 (1.8)	236 (3.5)!	35 (3.0)	214 (1.6)	16 (2.0)	195 (2.4)	41 (3.1)	213 (1.6)
North Dakota	3 (1.5)	*** (***)	52 (4.0)	228 (1.0)	2 (1.0)	*** (***)	43 (4.4)	227 (1.5)
Ohio	9 (1.8)	239 (3.9)	39 (3.1)	218 (1.8)	9 (1.6)	201 (3.5)	43 (3.6)	215 (1.7)
Oklahoma	6 (1.3)	235 (3.6)!	48 (3.9)	222 (1.3)	11 (2.1)	207 (2.6)	35 (3.7)	218 (1.3)
Pennsylvania	15 (2.0)	245 (3.0)	38 (3.0)	223 (1.6)	14 (1.7)	206 (3.2)	33 (3.6)	220 (2.3)
Rhode Island	8 (1.8)	239 (4.4)!	41 (3.0)	215 (2.5)	13 (1.7)	201 (3.4)	38 (3.7)	211 (2.2)
South Carolina	7 (1.3)	237 (3.6)	35 (2.8)	216 (1.6)	17 (2.0)	190 (2.3)	41 (3.9)	212 (2.0)
Tennessee	5 (1.1)	229 (4.1)!	39 (3.6)	212 (2.0)	16 (2.2)	191 (2.9)	40 (3.7)	213 (1.8)
Texas	8 (1.7)	244 (4.2)!	34 (2.6)	223 (2.1)	18 (2.1)	199 (2.7)	40 (3.8)	215 (2.0)
Utah	10 (1.7)	240 (3.3)	38 (3.2)	223 (1.3)	12 (1.7)	209 (3.2)	40 (3.5)	223 (1.3)
Virginia	14 (1.7)	242 (3.7)	43 (3.3)	221 (1.8)	11 (1.6)	194 (1.9)	32 (3.3)	217 (2.1)
West Virginia	8 (1.9)	227 (2.6)!	46 (3.0)	216 (1.5)	14 (2.5)	199 (2.8)	32 (2.9)	212 (2.0)
Wisconsin	11 (2.0)	245 (3.6)!	38 (3.5)	227 (1.5)	13 (1.8)	217 (3.6)	39 (3.7)	228 (1.8)
Wyoming	6 (1.5)	233 (3.6)!	42 (3.7)	225 (1.4)	7 (2.0)	210 (3.5)!	45 (3.2)	226 (1.2)
TERRITORY								
Guam	1 (0.3)	*** (***)	23 (1.1)	199 (1.6)	19 (1.2)	178 (1.8)	57 (1.5)	193 (1.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.50 | **Teachers' Reports on the Ability Levels of Students in Their Mathematics Classes (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Primarily High Ability		Primarily Average Ability		Primarily Low Ability		Ability Widely Mixed	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	23 (1.3)	300 (1.9)	38 (2.0)	264 (1.4)	18 (1.9)	244 (1.9)	20 (2.3)	259 (2.0)
Northeast	28 (1.3)	303 (4.8)	38 (2.7)	264 (4.2)	23 (2.8)	243 (3.5)	11 (4.0)	244 (6.7)[1]
Southeast	19 (2.5)	291 (1.8)	40 (2.8)	257 (2.2)	23 (4.6)	247 (4.5)[1]	18 (3.8)	256 (1.7)[1]
Central	26 (3.6)	302 (3.0)	37 (4.3)	270 (2.2)	13 (5.9)	248 (3.3)[1]	23 (5.3)	265 (3.2)[1]
West	21 (2.7)	300 (3.3)	38 (4.9)	264 (2.6)	16 (2.1)	238 (2.5)	25 (4.2)	262 (3.6)
STATES								
Alabama	17 (2.1)	283 (2.7)	34 (3.3)	252 (2.6)	22 (2.5)	227 (2.4)	27 (3.4)	252 (3.0)
Arizona	21 (1.4)	293 (1.9)	43 (2.9)	262 (1.8)	15 (1.8)	246 (2.9) >	21 (2.6)	253 (2.3)
Arkansas	23 (1.8)	279 (2.4)	39 (2.8)	256 (1.5)	16 (1.7)	229 (2.2)	22 (3.1)	250 (2.3)
California	25 (1.5)	291 (2.2)	33 (3.0)	262 (3.0) >	18 (1.7)	236 (2.3)	24 (3.2)	246 (3.7)
Colorado	21 (1.6)	297 (1.8)	37 (2.4)	272 (1.8)	12 (1.4)	243 (2.8)	30 (2.8)	264 (2.1)
Connecticut	32 (1.9)	299 (2.4)	37 (2.0)	270 (1.8)	17 (1.5)	245 (2.7)	14 (2.1)	259 (3.9)
Delaware	32 (1.3)	286 (1.7) <	32 (1.1)	260 (1.2)	26 (1.3)	237 (1.9)	9 (0.6) «	253 (2.0) »
Dist. Columbia	14 (0.8)	270 (2.7)	31 (1.1) «	237 (1.4) >	32 (1.2) »	218 (1.6)	23 (1.2) «	232 (2.1)
Florida	24 (1.7)	288 (1.7)	39 (2.3)	256 (2.1)	20 (2.0)	236 (2.6) >	17 (2.5)	254 (3.6) >
Georgia	24 (1.7)	286 (2.0)	36 (2.1)	258 (1.8)	25 (1.9)	234 (2.1)	15 (2.6)	252 (3.5)
Hawaii	19 (0.7) «	298 (1.7) >	36 (0.9)	263 (1.2) »	28 (0.9)	233 (1.6) »	17 (0.5) »	243 (1.6) >
Idaho	21 (1.8)	299 (2.1)	43 (2.7)	274 (1.1)	17 (2.0)	248 (2.5)	19 (2.9)	274 (2.0)
Indiana	24 (1.5)	300 (2.1)	38 (3.0)	266 (1.5)	15 (1.6)	244 (3.0)	23 (3.3)	260 (2.3)
Iowa	22 (2.3)	304 (2.3)	34 (3.8)	281 (1.7) >	9 (1.3)	256 (3.1)	35 (4.6)	278 (1.7)
Kentucky	25 (1.7)	289 (2.0)	33 (2.6)	260 (1.7)	22 (2.4)	240 (2.1) >	19 (2.9)	257 (2.0) >
Louisiana	15 (1.8)	281 (3.1)	36 (3.3)	251 (2.1)	20 (2.5)	231 (3.3)	29 (3.3)	246 (2.5)
Maine[1]	24 (2.0)	301 (1.9)	28 (3.1)	277 (1.9)	12 (1.9)	249 (2.3)	36 (4.0)	273 (1.7)
Maryland	34 (1.7)	296 (1.8)	36 (2.1)	258 (2.1)	19 (1.5)	233 (2.6)	12 (2.1)	255 (3.3)
Massachusetts[1]	29 (1.6)	296 (2.1)	37 (2.3)	271 (1.8)	19 (1.6)	248 (2.3)	15 (2.4)	262 (4.1)
Michigan	22 (2.0)	296 (2.0)	41 (2.8)	263 (2.0)	17 (2.5)	242 (2.5)	20 (3.3)	265 (3.2)
Minnesota	20 (2.0)	308 (2.1)	45 (3.4)	278 (1.6)	9 (1.9)	254 (4.1)[1]	25 (4.1)	275 (1.9)
Mississippi[1]	16 (1.5)	277 (2.4)	35 (2.3)	246 (2.4)	22 (2.2)	231 (2.3)	27 (2.9)	239 (2.2)
Missouri[1]	22 (1.8)	298 (2.0)	34 (2.4)	270 (1.5)	17 (1.9)	248 (2.2)	27 (3.7)	264 (1.7)
Nebraska	18 (2.1)	303 (2.1)	45 (3.8)	278 (1.8)	10 (1.7)	246 (4.4)	27 (3.9)	271 (2.5)
New Hampshire	27 (1.7)	301 (1.8)	30 (2.7)	272 (1.6)	10 (1.2) <	251 (2.6)	33 (3.7) >	272 (1.6) >
New Jersey	29 (1.8)	302 (2.0)	34 (2.3)	270 (1.9)	22 (2.2)	247 (2.9)	15 (2.8)	253 (5.2)
New Mexico	22 (1.3)	286 (1.5)	37 (2.7)	260 (1.1) >	16 (1.5)	239 (1.8)	25 (3.0)	249 (1.6)
New York	19 (1.6)	302 (2.5) >	45 (3.0)	268 (1.6)	18 (1.7)	224 (3.5)	18 (2.9)	261 (4.2)
North Carolina	24 (2.1)	288 (2.1)	34 (2.1)	260 (1.6) »	23 (2.0)	230 (2.1)	19 (2.9)	248 (2.5)
North Dakota	14 (2.2)	302 (3.7)	48 (3.8)	282 (1.6)	5 (1.5)	261 (3.1)[1] >	33 (3.9)	279 (2.0)
Ohio	23 (2.6)	298 (1.5)	37 (3.5)	270 (2.2) >	13 (1.8)	240 (3.0)	27 (3.1)	256 (2.4)
Oklahoma	21 (1.7)	294 (1.7) >	44 (3.2)	268 (1.6)	19 (2.1)	241 (2.3)	17 (3.5)	263 (2.1)[1]
Pennsylvania	29 (2.2)	296 (1.8)	38 (2.4)	270 (1.7)	17 (1.5)	243 (2.7)	16 (2.6) >	257 (3.2)
Rhode Island	30 (1.1)	288 (1.5)	34 (1.1) «	261 (1.2)	19 (0.8) <	242 (1.5) »	16 (0.8) »	256 (2.0) »
South Carolina[1]	26 (1.5)	294 (1.9)	37 (2.1)	258 (1.4)	24 (1.5)	233 (2.0)	13 (2.4)	252 (3.0)
Tennessee[1]	21 (2.3)	284 (2.5)	39 (3.2)	258 (1.5)	23 (2.4)	238 (2.6)	16 (2.5)	256 (3.7)
Texas	23 (1.6)	298 (2.2) »	32 (2.5) <	264 (1.8)	17 (1.6)	238 (2.5) >	28 (2.6)	254 (2.0)
Utah[1]	26 (1.7)	294 (1.6)	35 (2.1)	275 (1.4)	27 (1.8)	253 (1.6)	12 (1.9)	272 (2.9)
Virginia	27 (1.9)	295 (2.0)	38 (2.5)	266 (1.8)	18 (1.6)	237 (2.0)	18 (2.4)	261 (2.6)
West Virginia	28 (1.9)	282 (1.6)	33 (2.6)	255 (1.5)	21 (2.2)	237 (2.2)	18 (2.4)	252 (1.8)
Wisconsin	19 (2.4)	303 (2.2)	42 (4.1)	279 (1.9)	9 (1.3)	244 (3.1)	30 (3.5)	270 (2.3)
Wyoming	23 (1.4)	295 (1.8)	39 (2.3)	274 (1.3) >	15 (1.2)	251 (1.7)	23 (2.6)	272 (1.7)
TERRITORIES								
Guam	19 (1.0)	275 (2.0)	26 (1.3) «	243 (1.7)	31 (1.1) «	213 (2.0) >	24 (1.1) »	221 (2.0) «
Virgin Islands	19 (1.1) »	244 (2.3)	39 (1.2)	222 (1.2)	23 (1.3)	208 (2.0)	20 (1.0) «	211 (2.6)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

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Classroom Instructional Approaches

TABLE A.51 | **Teachers' Reports on the Frequency with Which Students Do Mathematics Problems from Textbooks in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	75 (2.4)	216 (1.1)	21 (2.0)	219 (2.8)	4 (1.4)	227 (4.1)!
Northeast	73 (5.6)	220 (2.7)	20 (4.1)	217 (6.9)!	7 (4.4)	*** (***)
Southeast	84 (2.3)	208 (2.2)	15 (2.0)	205 (3.3)	1 (1.0)	*** (***)
Central	78 (4.3)	224 (2.1)	18 (4.1)	226 (5.4)!	4 (1.9)	214 (9.8)!
West	63 (6.1)	213 (2.4)	32 (4.8)	224 (4.7)!	6 (3.4)	*** (***)
STATES						
Alabama	91 (1.9)	208 (1.5)	8 (2.0)	205 (5.5)!	1 (0.5)	*** (***)
Arizona	65 (3.3)	214 (1.5)	30 (2.8)	216 (1.6)	5 (1.5)	211 (4.0)!
Arkansas	92 (1.8)	209 (0.9)	7 (1.8)	215 (5.1)!	1 (0.3)	*** (***)
California	71 (3.1)	208 (1.9)	22 (3.0)	207 (3.2)	7 (1.8)	206 (5.2)!
Colorado	52 (3.4)	219 (1.4)	37 (2.9)	220 (2.0)	11 (2.3)	224 (3.8)!
Connecticut	56 (3.6)	226 (2.0)	33 (3.3)	230 (1.9)	11 (2.2)	229 (3.7)
Delaware	80 (0.8)	218 (1.0)	16 (1.0)	214 (1.9)	4 (0.4)	*** (***)
Dist. Columbia	39 (0.6)	191 (1.3)	54 (1.0)	193 (1.0)	7 (0.8)	178 (3.2)
Florida	81 (2.3)	213 (1.4)	16 (1.9)	207 (2.3)	3 (0.9)	215 (7.9)!
Georgia	88 (2.4)	214 (1.4)	10 (1.9)	213 (4.9)	2 (1.7)	*** (***)
Hawaii	84 (1.9)	214 (1.4)	14 (1.8)	210 (2.9)	2 (0.8)	*** (***)
Idaho	80 (3.2)	221 (1.0)	17 (2.8)	218 (2.4)	3 (1.6)	212 (3.6)!
Indiana	72 (3.0)	218 (1.3)	24 (2.9)	221 (1.8)	3 (1.1)	227 (4.5)!
Iowa	68 (3.4)	228 (1.3)	26 (3.2)	231 (2.1)	6 (1.6)	233 (2.8)!
Kentucky	76 (3.5)	214 (1.3)	22 (3.4)	210 (2.2)	2 (0.8)	213 (9.8)!
Louisiana	91 (2.0)	203 (1.6)	9 (2.0)	197 (3.6)!	0 (0.0)	*** (***)
Maine	44 (4.1)	231 (1.3)	44 (4.0)	230 (1.5)	12 (2.7)	229 (3.8)!
Maryland	67 (3.3)	217 (2.1)	29 (3.2)	217 (2.4)	5 (1.5)	238 (5.1)!
Massachusetts	58 (4.0)	225 (1.8)	33 (3.4)	227 (1.8)	9 (2.2)	234 (4.3)!
Michigan	65 (3.9)	218 (2.1)	31 (3.5)	220 (3.1)	3 (1.1)	225 (6.1)!
Minnesota	70 (3.3)	226 (1.5)	21 (3.0)	229 (2.5)	9 (2.2)	229 (2.9)!
Mississippi	85 (2.7)	201 (1.4)	15 (2.8)	196 (2.3)	0 (0.5)	*** (***)
Missouri	82 (2.7)	221 (1.6)	13 (2.3)	226 (2.7)	5 (1.8)	228(10.1)!
Nebraska	71 (3.8)	224 (1.5)	25 (3.7)	226 (2.9)	3 (1.3)	230 (9.1)!
New Hampshire	55 (3.9)	229 (1.5)	36 (3.7)	227 (2.1)	9 (1.6)	237 (3.1)
New Jersey	85 (2.7)	226 (1.5)	14 (2.7)	229 (4.3)	1 (0.4)	*** (***)
New Mexico	83 (3.4)	212 (1.5)	13 (3.1)	213 (3.1)!	3 (1.6)	*** (***)
New York	70 (3.3)	217 (1.5)	24 (2.7)	215 (2.7)	6 (1.8)	227 (5.4)!
North Carolina	78 (2.8)	213 (1.2)	20 (2.5)	211 (2.9)	3 (1.1)	209 (4.3)!
North Dakota	82 (3.0)	228 (0.9)	15 (2.7)	228 (2.7)	3 (1.1)	*** (***)
Ohio	77 (3.4)	217 (1.5)	22 (3.3)	217 (3.0)	1 (0.7)	*** (***)
Oklahoma	83 (2.9)	220 (1.1)	14 (2.5)	220 (2.9)	3 (1.6)	214 (4.8)!
Pennsylvania	83 (2.5)	225 (1.5)	15 (2.4)	215 (3.7)	2 (0.8)	191 (6.1)!
Rhode Island	65 (3.0)	213 (1.8)	32 (2.7)	217 (2.4)	4 (1.0)	204 (8.5)!
South Carolina	87 (2.4)	212 (1.3)	12 (2.0)	207 (3.4)	2 (0.9)	*** (***)
Tennessee	85 (2.3)	209 (1.5)	13 (2.1)	214 (3.6)	2 (0.8)	*** (***)
Texas	69 (3.4)	216 (1.6)	26 (3.2)	217 (2.9)	5 (2.3)	228 (3.2)!
Utah	80 (2.3)	224 (1.0)	17 (2.2)	223 (2.3)	3 (1.1)	208 (4.9)!
Virginia	83 (3.0)	219 (1.4)	14 (2.4)	222 (3.8)	3 (1.1)	238(10.5)!
West Virginia	89 (2.2)	214 (1.2)	11 (2.2)	212 (2.9)!	1 (0.5)	*** (***)
Wisconsin	78 (2.9)	228 (1.3)	20 (2.9)	230 (2.7)	2 (0.9)	*** (***)
Wyoming	56 (2.9)	226 (1.3)	35 (2.5)	223 (1.7)	9 (2.1)	225 (2.4)!
TERRITORY						
Guam	70 (1.3)	192 (1.0)	23 (1.3)	187 (2.0)	8 (0.1)	196 (3.8)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.51 | **Teachers' Reports on the Frequency with Which Students Do Mathematics Problems from Textbooks in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	82 (1.6)	271 (1.3)	15 (1.6)	256 (2.4)	3 (0.7)	248 (8.0)#
Northeast	80 (2.7)	271 (4.2)	13 (2.2)	253 (4.5)	8 (2.7)	255 (8.8)#
Southeast	92 (2.7)	263 (1.2)	8 (2.7)	243(11.7)#	1 (0.3)	*** (***)
Central	76 (4.3)	279 (2.5)	23 (4.4)	262 (5.0)#	1 (0.7)	*** (***)
West	79 (2.8)	271 (2.5)	16 (2.5)	257 (2.9)	5 (1.3)	240 (6.6)#
STATES						
Alabama	87 (3.2)	254 (1.8)	12 (3.1)	239 (8.6)#	1 (0.9)	*** (***)
Arizona	82 (2.8)>	266 (1.6)	14 (2.5)<	256 (3.2)#	4 (1.5)	258 (4.3)#
Arkansas	91 (2.0)>	257 (1.2)	7 (1.7)«	247 (4.9)#	2 (0.8)	*** (***)
California	74 (3.1)	263 (2.1)	18 (2.4)«	258 (3.3)	8 (1.8)>	254 (5.0)#
Colorado	70 (3.0)	276 (1.4)>	21 (2.6)<	263 (2.4)	9 (2.3)	256 (5.8)#
Connecticut	74 (2.8)»	276 (2.0)	20 (2.6)«	265 (2.6)	6 (1.5)	267 (6.4)#
Delaware	68 (1.1)	266 (1.3)	25 (1.0)<	255 (1.8)	7 (0.6)»	252 (2.6)
Dist. Columbia	71 (1.0)»	239 (1.2)	24 (1.0)«	224 (1.9)<	5 (0.4)	227 (4.6)
Florida	86 (2.0)>	262 (1.4)	12 (1.8)«	246 (3.9)	2 (0.5)	*** (***)
Georgia	87 (2.1)»	260 (1.4)	12 (2.1)«	248 (2.7)	1 (0.4)	*** (***)
Hawaii	79 (0.6)»	261 (1.0)>	16 (0.6)«	250 (1.7)»	5 (0.5)»	231 (4.0)
Idaho	93 (1.7)»	275 (0.8)	6 (1.5)«	272 (3.8)#	2 (0.8)	*** (***)
Indiana	87 (2.2)	272 (1.4)	12 (2.1)	257 (2.8)	2 (0.5)	*** (***)
Iowa	90 (2.2)»	283 (1.1)>	8 (1.9)«	283 (3.7)#	2 (1.1)	*** (***)
Kentucky	80 (2.7)	264 (1.2)>	17 (2.4)	256 (2.8)	3 (1.2)	239 (8.2)#
Louisiana	87 (2.7)	251 (1.8)	11 (2.3)	243 (5.7)#	2 (1.2)	*** (***)
Maine[1]	70 (3.8)	281 (1.3)	20 (3.4)	273 (2.2)	9 (2.0)	268 (6.9)#
Maryland	72 (3.3)>	270 (1.9)	25 (3.2)<	257 (2.7)	3 (0.9)	251(12.6)#
Massachusetts[1]	82 (2.9)	274 (1.4)	14 (2.7)	263 (4.8)	4 (1.3)	261 (9.5)#
Michigan	80 (2.6)	270 (1.7)	17 (2.5)	254 (4.2)	3 (0.9)	251(10.2)#
Minnesota	95 (1.1)»	282 (1.1)>	4 (1.4)«	266 (5.9)#	1 (0.6)	*** (***)
Mississippi[1]	88 (2.5)	246 (1.3)	10 (2.2)	234 (4.6)#	2 (1.1)	257(17.6)#
Missouri[1]	86 (2.5)	272 (1.2)	10 (1.9)	261 (3.2)	4 (1.0)	262 (4.7)#
Nebraska	83 (2.9)	280 (1.3)	15 (2.7)	263 (2.3)	2 (0.9)	*** (***)
New Hampshire	73 (2.7)»	279 (1.3)>	20 (2.1)«	274 (1.3)	7 (1.8)	276 (4.5)#
New Jersey	80 (3.7)	274 (1.4)	19 (3.7)	261 (5.4)#	1 (0.5)	*** (***)
New Mexico	82 (3.0)»	261 (1.0)	12 (2.4)«	251 (2.9)#	6 (1.7)	248 (4.4)#
New York	66 (4.1)	270 (2.6)	22 (2.8)<	261 (4.5)	11 (2.8)	251 (7.3)#
North Carolina	84 (2.3)»	259 (1.3)>	13 (2.1)«	249 (2.7)	3 (0.9)	236(10.2)#
North Dakota	90 (1.8)>	283 (1.3)	5 (1.1)<	278 (4.6)#	5 (1.4)	277 (2.2)#
Ohio	79 (3.1)	272 (1.9)	19 (3.0)	260 (3.6)	1 (0.5)	*** (***)
Oklahoma	93 (1.8)>	268 (1.2)	6 (1.7)«	265 (4.7)#	1 (0.4)	*** (***)
Pennsylvania	86 (2.0)>	273 (1.6)	12 (1.9)<	258 (4.5)	2 (0.7)	*** (***)
Rhode Island	75 (1.1)>	268 (0.9)	17 (1.0)«	256 (1.7)	7 (0.4)»	259 (2.7)»
South Carolina[1]	85 (2.3)	262 (1.1)	13 (2.1)	249 (3.9)	2 (0.8)	*** (***)
Tennessee[1]	84 (3.1)	259 (1.5)	14 (2.7)	254 (3.2)	2 (1.0)	*** (***)
Texas	80 (2.5)»	267 (1.6)»	18 (2.4)«	252 (2.4)	2 (0.9)	*** (***)
Utah[1]	93 (1.3)	275 (0.8)	5 (1.2)	260 (2.9)#	2 (0.5)	*** (***)
Virginia	81 (2.5)>	270 (1.2)	16 (2.3)«	254 (3.6)	3 (0.7)	251 (7.2)#
West Virginia	91 (1.7)	259 (1.1)	8 (1.5)<	252 (4.8)	1 (0.6)	*** (***)
Wisconsin	84 (2.7)>	280 (1.8)	14 (2.5)«	271 (4.8)	3 (1.2)	272 (8.3)#
Wyoming	83 (2.4)»	277 (0.9)	9 (1.2)«	262 (2.8)	8 (1.9)	268 (1.9)#
TERRITORIES						
Guam	80 (0.7)»	238 (1.4)	12 (0.7)«	224 (3.9)	8 (0.5)»	220 (4.4)
Virgin Islands	89 (0.8)»	223 (1.2)	11 (0.8)<	207 (2.5)	0 (0.0)	*** (***)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.52 | **Teachers' Reports on the Frequency with Which Students Do Mathematics Problems on Worksheets in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	26 (2.3)	218 (2.0)	58 (2.4)	217 (1.6)	16 (2.0)	215 (2.1)
Northeast	27 (4.8)	218 (5.4)	56 (4.0)	222 (3.6)	17 (3.4)	220 (4.9)!
Southeast	27 (4.6)	208 (3.9)!	54 (4.7)	209 (3.0)	19 (4.1)	203 (3.4)!
Central	21 (4.8)	226 (3.1)!	59 (5.5)	223 (2.9)	19 (5.2)	221 (4.2)!
West	29 (3.6)	221 (3.9)	60 (4.5)	215 (2.9)	10 (2.3)	219 (4.9)!
STATES						
Alabama	24 (2.8)	203 (2.6)	56 (3.2)	208 (2.2)	20 (2.6)	209 (3.2)
Arizona	25 (2.7)	215 (2.2)	58 (3.0)	214 (1.7)	16 (2.5)	215 (2.7)
Arkansas	20 (3.3)	208 (1.5)	57 (3.5)	208 (1.2)	22 (3.3)	213 (2.9)
California	23 (2.8)	205 (3.1)	47 (4.0)	208 (2.6)	30 (3.5)	209 (2.9)
Colorado	23 (2.9)	216 (2.4)	55 (3.3)	220 (1.4)	22 (2.9)	225 (3.0)
Connecticut	24 (2.5)	231 (2.2)	55 (2.9)	227 (2.0)	21 (2.5)	224 (2.4)
Delaware	37 (1.0)	219 (1.4)	51 (0.8)	216 (1.2)	12 (0.6)	217 (3.3)
Dist. Columbia	24 (0.8)	190 (1.6)	59 (1.0)	193 (1.0)	17 (0.8)	185 (2.5)
Florida	23 (2.9)	214 (2.3)	50 (2.7)	212 (1.5)	27 (3.1)	211 (2.6)
Georgia	27 (3.6)	217 (2.5)	50 (3.1)	213 (2.0)	23 (3.2)	213 (3.9)
Hawaii	21 (2.4)	212 (3.0)	55 (2.9)	214 (1.7)	24 (2.6)	212 (2.4)
Idaho	22 (3.2)	221 (2.4)	55 (3.8)	220 (1.3)	22 (3.3)	221 (1.5)
Indiana	24 (3.3)	222 (2.2)	58 (3.1)	219 (1.2)	18 (2.8)	217 (2.8)
Iowa	26 (3.3)	233 (1.7)	46 (3.1)	227 (1.6)	27 (3.5)	229 (2.3)
Kentucky	30 (4.0)	216 (1.9)	53 (3.8)	212 (1.7)	17 (3.1)	215 (2.6)
Louisiana	29 (3.0)	206 (2.4)	59 (3.6)	201 (1.9)	12 (2.7)	203 (4.8)!
Maine	28 (3.1)	229 (1.4)	52 (4.4)	231 (1.4)	20 (3.3)	231 (2.7)
Maryland	28 (2.8)	223 (2.8)	47 (3.1)	215 (2.1)	25 (3.0)	218 (2.9)
Massachusetts	37 (2.9)	229 (1.9)	53 (2.6)	226 (1.4)	10 (2.1)	225 (3.1)!
Michigan	19 (2.9)	227 (4.3)	55 (3.8)	216 (1.9)	26 (3.8)	219 (3.2)
Minnesota	24 (3.5)	227 (2.8)	53 (4.0)	227 (1.3)	22 (3.6)	228 (3.1)
Mississippi	15 (2.6)	202 (2.9)	65 (3.4)	199 (1.5)	20 (3.1)	204 (3.4)
Missouri	34 (4.0)	225 (2.2)	49 (3.3)	221 (2.0)	17 (2.6)	219 (2.5)
Nebraska	20 (3.0)	224 (2.4)	52 (3.9)	225 (2.1)	28 (3.5)	226 (2.4)
New Hampshire	29 (3.4)	231 (2.3)	51 (2.9)	228 (1.5)	20 (3.0)	228 (2.2)
New Jersey	39 (3.8)	229 (2.4)	48 (3.6)	227 (2.0)	13 (2.1)	225 (5.0)
New Mexico	18 (3.1)	216 (2.2)	53 (3.0)	213 (1.7)	29 (3.1)	208 (2.2)
New York	43 (3.6)	217 (2.4)	38 (3.8)	219 (2.1)	19 (2.8)	213 (2.8)
North Carolina	11 (2.0)	209 (2.8)	62 (2.9)	213 (1.2)	26 (2.5)	213 (2.0)
North Dakota	33 (4.4)	226 (1.7)	50 (4.7)	228 (1.3)	17 (3.7)	231 (1.4)!
Ohio	30 (3.7)	220 (2.3)	54 (3.6)	216 (1.9)	16 (2.5)	216 (2.4)
Oklahoma	26 (3.7)	218 (2.1)	53 (3.8)	220 (1.3)	21 (2.8)	221 (2.4)
Pennsylvania	52 (3.9)	225 (1.8)	39 (3.4)	221 (2.4)	9 (1.7)	220 (5.4)!
Rhode Island	37 (2.9)	217 (2.5)	49 (3.1)	213 (1.8)	14 (1.9)	210 (3.9)
South Carolina	18 (3.0)	208 (2.2)	56 (3.2)	212 (1.6)	26 (3.1)	213 (2.0)
Tennessee	22 (2.9)	208 (2.5)	58 (3.2)	210 (1.8)	20 (2.9)	211 (2.2)
Texas	30 (3.4)	219 (2.3)	55 (4.1)	217 (1.9)	15 (2.7)	214 (4.2)!
Utah	28 (3.0)	225 (1.8)	53 (3.3)	222 (1.2)	20 (2.3)	223 (2.4)
Virginia	22 (2.8)	219 (3.2)	53 (3.1)	219 (1.9)	25 (3.3)	220 (2.7)
West Virginia	18 (2.4)	215 (1.8)	56 (3.2)	213 (1.7)	26 (2.5)	213 (2.3)
Wisconsin	35 (3.0)	228 (1.7)	49 (3.0)	228 (1.9)	15 (2.5)	230 (2.4)
Wyoming	40 (3.5)	224 (1.4)	47 (3.2)	225 (1.3)	13 (2.2)	225 (2.3)
TERRITORY						
Guam	24 (1.2)	194 (1.8)	45 (1.2)	192 (1.2)	31 (1.0)	189 (1.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.52 | **Teachers' Reports on the Frequency with Which Students Do Mathematics Problems on Worksheets in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	12 (1.9)	259 (4.9)	54 (2.2)	266 (1.6)	35 (2.7)	273 (1.9)
Northeast	13 (5.4)	271(13.1)!	50 (5.0)	264 (5.1)	38 (6.7)	272 (3.7)
Southeast	15 (4.9)	256 (4.7)!	54 (5.2)	262 (1.7)	31 (7.3)	264 (3.2)!
Central	8 (3.3)	266 (4.0)!	66 (5.5)	272 (3.6)	26 (4.5)	286 (3.5)
West	10 (1.8)	250 (4.6)	47 (2.6)	265 (2.7)	42 (2.7)	275 (2.8)
STATES						
Alabama	11 (3.1)	238(10.7)!	53 (4.2)«	251 (1.9)	36 (3.8)>	258 (2.7)
Arizona	6 (1.4)	249 (4.4)!	48 (3.1)<	264 (1.7)>	46 (3.1)	267 (2.0)
Arkansas	10 (2.5)	245 (5.0)!	57 (4.0)	253 (1.6)	32 (4.1)	265 (2.1)
California	11 (2.0)	256 (4.0)	39 (3.4)«	259 (2.8)	50 (3.7)>	264 (2.2)
Colorado	14 (1.9)>	259 (2.9)	52 (3.1)	270 (1.5)>	33 (3.3)	279 (1.8)
Connecticut	16 (2.9)>	264 (5.0)	54 (3.1)<	276 (1.8)>	30 (3.0)	273 (3.1)
Delaware	18 (0.8)»	250 (1.7)	62 (1.1)«	260 (1.3)	21 (1.0)»	278 (2.1)
Dist. Columbia	13 (0.8)»	220 (2.5)	56 (1.2)«	230 (1.3)	31 (1.0)»	247 (2.1)»
Florida	9 (1.6)	242 (2.9)	42 (3.1)«	254 (2.1)	49 (3.5)»	267 (1.9)
Georgia	7 (1.9)	243 (4.5)!	57 (4.0)	255 (1.9)	36 (3.8)	266 (1.9)
Hawaii	11 (0.6)	238 (2.0)	53 (0.8)<	256 (1.1)»	36 (0.8)	265 (1.3)
Idaho	9 (1.8)	272 (3.7)!>	44 (3.5)<	271 (1.3)	47 (3.7)	278 (1.0)
Indiana	8 (2.1)	255 (4.0)!	54 (3.9)	265 (1.7)	38 (3.4)	279 (2.0)
Iowa	17 (4.2)	278 (3.0)!	51 (4.5)	283 (1.6)	32 (4.5)	286 (1.6)>
Kentucky	12 (2.3)	255 (5.4)!	54 (4.1)<	259 (1.2)>	35 (3.8)	270 (2.4)
Louisiana	7 (2.0)	248 (4.0)!	67 (4.3)	247 (1.8)	26 (3.9)	257 (3.8)
Maine[1]	12 (1.6)	270 (4.9)	51 (3.8)	277 (1.9)	37 (3.8)	282 (1.7)
Maryland	13 (2.5)	259 (4.4)	59 (3.5)	262 (2.1)	28 (3.4)	276 (3.4)>
Massachusetts[1]	15 (2.1)	261 (3.3)	55 (2.9)	272 (1.5)	30 (2.7)	279 (2.8)
Michigan	10 (2.1)	264 (5.0)!	60 (3.7)	264 (2.3)	30 (3.4)	272 (2.8)
Minnesota	9 (2.6)	276 (3.9)!	47 (4.0)<	276 (2.0)	44 (4.0)>	288 (1.7)
Mississippi[1]	11 (2.7)	235 (5.7)!	57 (4.1)	244 (1.7)	32 (3.8)	251 (2.1)
Missouri[1]	8 (2.0)	264 (3.9)!	51 (3.5)	268 (1.3)	41 (3.5)	276 (1.9)
Nebraska	14 (3.1)	275 (3.4)!	54 (4.2)<	273 (1.7)	33 (4.0)	286 (2.3)
New Hampshire	22 (3.0)»	276 (2.1)	51 (3.0)«	276 (1.3)»	27 (2.7)	282 (2.4)
New Jersey	19 (3.1)>	270 (3.8)	48 (4.2)«	268 (2.7)	33 (3.6)>	277 (3.2)
New Mexico	14 (2.4)	258 (2.3)	39 (2.9)«	256 (1.5)	47 (3.4)>	262 (1.6)
New York	21 (3.7)>	260 (4.7)	49 (3.8)<	269 (3.3)	30 (3.7)	263 (3.5)
North Carolina	9 (1.5)	251 (4.9)	57 (3.4)«	254 (1.7)	34 (3.3)>	265 (1.9)
North Dakota	15 (2.6)	283 (2.2)	45 (3.7)<	282 (2.0)	40 (3.6)	284 (1.2)
Ohio	12 (2.2)»	261 (3.6)	58 (4.9)	266 (1.9)	30 (4.7)	278 (4.4)
Oklahoma	8 (2.5)	256 (3.9)!	42 (3.3)<	264 (2.1)	50 (3.2)	272 (1.4)
Pennsylvania	10 (2.1)	253 (4.8)!	58 (2.9)	271 (1.6)	32 (2.9)	277 (2.9)
Rhode Island	11 (0.6)»	256 (2.2)	53 (0.9)«	265 (1.2)>	35 (0.8)»	269 (1.2)»
South Carolina[1]	12 (2.2)	245 (3.7)	54 (2.8)	259 (1.4)	34 (2.5)	269 (2.6)
Tennessee[1]	13 (2.7)	248 (4.1)!	56 (4.0)	259 (1.8)	31 (3.9)	259 (2.4)
Texas	10 (2.1)	255 (3.8)!	52 (3.9)<	259 (2.1)	38 (3.7)	275 (2.3)»
Utah[1]	6 (1.3)	262 (4.2)!	45 (2.5)	269 (1.3)	49 (2.5)	279 (1.2)
Virginia	7 (1.3)	257 (5.0)	63 (2.8)	265 (1.5)	30 (2.8)	274 (2.8)
West Virginia	5 (1.2)	252 (4.3)!	50 (3.5)<	256 (1.4)	45 (3.5)>	262 (1.7)
Wisconsin	6 (1.4)	269 (5.5)!	55 (4.4)	275 (2.0)	39 (4.5)	284 (1.8)
Wyoming	10 (2.1)	272 (2.6)!	46 (3.1)«	271 (1.3)	44 (3.0)»	279 (1.4)>
TERRITORIES						
Guam	5 (0.5)	224 (6.0)	47 (1.3)«	232 (1.6)	48 (1.2)»	239 (1.5)<
Virgin Islands	5 (0.4)»	*** (***)	68 (0.8)«	219 (1.3)	27 (0.8)»	227 (1.5)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. !***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.53 | **Students' Reports on the Frequency with Which They Do Mathematics Problems from Textbooks in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	65 (1.4)	219 (0.9)	17 (1.0)	220 (1.7)	18 (1.0)	208 (1.8)
Northeast	65 (4.1)	224 (2.4)	17 (2.6)	227 (3.0)	18 (2.3)	214 (5.6)
Southeast	71 (2.7)	212 (1.8)	13 (1.4)	205 (2.6)	16 (2.0)	196 (3.9)
Central	68 (2.2)	224 (2.2)	16 (1.9)	224 (1.8)	16 (1.6)	211 (4.0)
West	58 (2.3)	218 (1.6)	22 (1.7)	221 (3.9)	20 (2.3)	210 (2.8)
STATES						
Alabama	79 (1.6)	210 (1.5)	10 (0.8)	200 (3.2)	11 (1.2)	189 (2.4)
Arizona	61 (1.5)	217 (1.3)	19 (1.1)	215 (1.8)	21 (1.0)	204 (1.8)
Arkansas	65 (1.7)	214 (1.0)	13 (1.0)	203 (1.9)	22 (1.2)	195 (1.9)
California	57 (1.6)	212 (1.7)	19 (1.0)	201 (2.7)	24 (1.4)	202 (2.9)
Colorado	55 (2.1)	223 (1.1)	21 (1.4)	221 (1.8)	24 (1.3)	212 (2.1)
Connecticut	61 (1.9)	228 (1.4)	19 (1.3)	228 (1.7)	20 (1.3)	219 (2.1)
Delaware	64 (1.1)	220 (1.2)	17 (0.9)	216 (2.1)	20 (1.0)	206 (1.4)
Dist. Columbia	41 (0.9)	194 (1.1)	31 (1.0)	195 (1.5)	28 (0.8)	185 (1.2)
Florida	70 (1.6)	216 (1.6)	13 (0.9)	205 (2.1)	17 (1.1)	201 (2.2)
Georgia	71 (1.2)	219 (1.3)	13 (0.8)	208 (2.2)	16 (1.1)	198 (2.0)
Hawaii	73 (1.4)	217 (1.4)	14 (1.1)	206 (2.6)	13 (0.8)	197 (2.3)
Idaho	63 (1.9)	225 (0.9)	15 (1.3)	217 (1.8)	22 (1.1)	210 (2.0)
Indiana	70 (1.4)	221 (1.0)	16 (1.2)	222 (2.0)	14 (0.8)	211 (2.4)
Iowa	67 (1.9)	231 (1.1)	18 (1.3)	230 (1.7)	15 (1.1)	219 (2.1)
Kentucky	68 (1.6)	217 (1.1)	14 (0.8)	208 (2.4)	18 (1.2)	204 (1.8)
Louisiana	78 (1.4)	207 (1.5)	12 (0.9)	197 (2.3)	10 (0.9)	187 (2.8)
Maine	45 (2.6)	233 (1.3)	27 (1.7)	232 (1.7)	27 (1.8)	226 (1.8)
Maryland	63 (1.9)	220 (1.6)	19 (1.5)	217 (2.5)	17 (1.2)	204 (2.2)
Massachusetts	58 (2.2)	228 (1.5)	21 (1.3)	228 (1.8)	21 (1.6)	217 (2.5)
Michigan	61 (2.1)	222 (1.8)	19 (1.3)	218 (2.9)	20 (1.6)	210 (2.4)
Minnesota	67 (1.5)	232 (0.9)	16 (1.1)	223 (2.3)	17 (1.3)	216 (2.6)
Mississippi	75 (1.3)	205 (1.1)	14 (0.9)	192 (2.2)	11 (0.8)	182 (2.2)
Missouri	72 (2.1)	224 (1.5)	14 (1.1)	219 (1.7)	14 (1.7)	210 (3.9)
Nebraska	68 (1.9)	228 (1.3)	16 (1.5)	225 (2.7)	16 (1.0)	209 (2.3)
New Hampshire	61 (2.2)	231 (1.3)	19 (1.5)	233 (2.1)	20 (1.3)	218 (2.2)
New Jersey	80 (1.5)	229 (1.5)	12 (1.0)	221 (2.6)	9 (0.9)	206 (3.0)
New Mexico	67 (1.8)	216 (1.7)	12 (1.0)	208 (3.6)	21 (1.4)	202 (2.0)
New York	67 (2.1)	221 (1.4)	21 (1.4)	212 (2.4)	13 (1.2)	205 (3.1)
North Carolina	74 (1.4)	215 (1.2)	13 (0.9)	205 (2.3)	14 (0.8)	198 (1.9)
North Dakota	76 (1.9)	230 (0.8)	13 (1.3)	224 (2.1)	11 (1.1)	215 (2.0)
Ohio	64 (1.8)	220 (1.2)	18 (1.4)	219 (2.5)	18 (1.0)	206 (2.3)
Oklahoma	71 (1.8)	222 (1.1)	13 (1.1)	216 (2.2)	16 (1.3)	207 (1.8)
Pennsylvania	71 (1.4)	227 (1.5)	17 (1.2)	219 (2.5)	12 (1.2)	209 (2.5)
Rhode Island	57 (1.6)	219 (1.6)	18 (1.0)	212 (2.9)	26 (1.6)	205 (2.2)
South Carolina	74 (1.5)	215 (1.2)	12 (1.0)	203 (2.6)	14 (1.0)	198 (1.9)
Tennessee	68 (1.5)	214 (1.5)	15 (0.9)	203 (2.8)	16 (1.2)	198 (2.0)
Texas	60 (2.4)	219 (1.3)	21 (1.2)	219 (2.6)	20 (2.1)	209 (2.6)
Utah	60 (1.4)	228 (1.0)	14 (0.8)	220 (2.0)	26 (1.1)	212 (1.7)
Virginia	71 (1.6)	223 (1.3)	13 (0.9)	217 (2.9)	16 (1.2)	207 (3.1)
West Virginia	74 (1.2)	218 (1.1)	9 (0.8)	205 (3.0)	17 (1.0)	202 (1.8)
Wisconsin	69 (1.7)	230 (1.1)	17 (1.1)	228 (2.0)	14 (1.1)	215 (3.1)
Wyoming	60 (1.7)	227 (1.1)	19 (1.0)	226 (1.8)	21 (1.5)	216 (1.4)
TERRITORY						
Guam	61 (1.3)	194 (0.9)	24 (1.1)	190 (1.4)	14 (0.7)	182 (2.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.53 | **Students' Reports on the Frequency with Which They Do Mathematics Problems from Textbooks in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	84 (1.0)	270 (1.1)	11 (0.8)	251 (1.9)	5 (0.4)	245 (2.6)
Northeast	81 (2.1)	272 (3.2)	12 (1.3)	254 (4.7)	7 (1.2)	243 (5.8)
Southeast	89 (1.8)	260 (1.3)	8 (1.4)	242 (4.1)	3 (0.5)	*** (***)
Central	84 (1.9)	276 (2.6)	11 (1.8)	259 (4.8)	5 (0.9)	256 (3.3)!
West	82 (2.0)	271 (2.3)	12 (1.5)	247 (2.3)	6 (0.9)	244 (4.6)
STATES						
Alabama	88 (1.6)>	253 (1.6)	8 (1.1)«	239 (4.5)	4 (0.9)	243 (9.3)!
Arizona	84 (1.9)	268 (1.3)	9 (1.0)«	247 (3.5)	6 (1.5)	252 (4.1)!
Arkansas	87 (1.3)>	258 (1.2)	8 (0.9)«	244 (2.7)	4 (0.6)	231 (6.1)
California	76 (1.9)>	264 (1.9)	14 (1.2)«	250 (2.9)	10 (1.5)	244 (3.5)
Colorado	76 (2.5)	276 (1.0)>	14 (1.5)<	259 (2.1)	10 (2.0)	256 (5.3)
Connecticut	78 (2.1)»	276 (1.3)	13 (1.2)«	266 (2.3)	9 (1.4)	260 (3.9)
Delaware	75 (1.0)»	267 (1.2)	16 (0.8)«	249 (2.1)	10 (0.8)	251 (2.8)
Dist. Columbia	59 (1.4)»	239 (1.3)	28 (1.3)«	228 (2.1)	12 (0.7)>	227 (3.0)
Florida	87 (1.3)»	262 (1.4)	9 (1.1)«	237 (3.7)	3 (0.5)	239 (5.3)
Georgia	91 (1.0)»	261 (1.2)	7 (0.9)«	243 (3.1)	2 (0.3)<	*** (***)
Hawaii	78 (0.9)»	262 (1.0)	14 (0.6)«	242 (2.4)>	8 (0.6)	234 (2.3)
Idaho	93 (0.9)»	275 (0.7)	3 (0.5)«	267 (4.8)	3 (0.7)	255 (8.6)!
Indiana	90 (1.1)»	271 (1.2)	6 (0.9)«	254 (2.9)	3 (0.6)	247 (4.4)
Iowa	90 (1.5)»	284 (1.0)>	8 (1.1)«	271 (3.5)	3 (0.7)	271 (7.7)!
Kentucky	84 (1.6)	264 (1.1)>	10 (1.1)<	250 (2.2)	5 (0.9)	243 (4.5)
Louisiana	88 (1.7)»	251 (1.7)	8 (1.1)«	240 (2.4)	4 (1.1)	233 (5.8)!
Maine[1]	80 (2.2)	281 (1.0)	11 (1.5)	267 (2.3)	8 (1.3)	266 (7.2)
Maryland	76 (1.6)»	269 (1.4)	18 (1.4)«	250 (2.1)	6 (0.6)	247 (5.9)
Massachusetts[1]	82 (1.7)	276 (1.0)	12 (1.2)	255 (2.2)	6 (1.1)	256 (4.7)
Michigan	85 (1.7)>	270 (1.4)	9 (1.0)«	248 (3.9)	6 (1.1)	251 (6.2)
Minnesota	93 (1.2)»	283 (1.0)>	5 (0.7)«	265 (4.5)	3 (0.8)	267 (3.8)!
Mississippi[1]	87 (1.5)	247 (1.2)	10 (1.1)	238 (4.0)	3 (0.7)	227 (4.6)!
Missouri[1]	86 (1.9)	272 (1.2)	9 (1.1)	262 (2.5)	5 (1.1)	258 (5.1)!
Nebraska	90 (1.4)»	279 (1.1)	7 (1.1)«	261 (3.9)	3 (0.6)	239 (6.3)!«
New Hampshire	79 (2.2)>	280 (1.1)	13 (1.3)«	273 (2.4)	8 (1.2)	267 (3.1)
New Jersey	82 (2.0)	274 (1.5)	14 (1.6)<	264 (3.6)	5 (1.0)	252 (6.0)!
New Mexico	83 (1.7)>	262 (0.9)	10 (0.9)«	243 (2.4)	7 (1.3)	245 (2.9)
New York	71 (3.0)	269 (2.2)	16 (1.3)«	259 (3.4)	13 (2.3)	255 (4.9)
North Carolina	88 (1.0)»	261 (1.2)>	8 (0.8)«	238 (3.0)	4 (0.6)	234 (5.5)
North Dakota	90 (1.8)»	284 (1.2)	4 (1.0)«	272 (3.5)!	6 (1.3)	274 (2.1)!
Ohio	83 (1.6)>	271 (1.6)>	12 (1.2)«	254 (2.7)	5 (0.8)>	237 (3.2)
Oklahoma	92 (1.2)>	269 (1.1)	5 (0.7)«	251 (4.6)	3 (0.7)	237 (5.0)
Pennsylvania	85 (1.6)»	274 (1.4)	10 (1.1)«	255 (3.0)	5 (1.0)	250 (4.8)
Rhode Island	82 (1.1)»	269 (0.9)>	13 (1.0)«	251 (2.1)	5 (0.5)	243 (2.8)>
South Carolina[1]	87 (1.3)	262 (1.1)	9 (0.8)	245 (2.2)	4 (0.8)	243 (5.3)
Tennessee[1]	84 (1.9)	261 (1.6)	12 (1.4)	248 (2.3)	4 (0.8)	236 (4.1)
Texas	80 (1.4)»	268 (1.4)>	14 (1.1)«	247 (2.8)	5 (0.7)	248 (4.6)
Utah[1]	91 (1.1)	276 (0.7)	5 (0.6)	253 (3.0)	4 (0.8)	253 (3.6)
Virginia	87 (1.4)»	269 (1.2)	9 (1.1)«	251 (3.2)	4 (0.6)	256 (6.0)
West Virginia	92 (0.8)»	260 (1.0)	6 (0.7)«	244 (3.0)	2 (0.4)	*** (***)
Wisconsin	85 (1.7)	280 (1.3)	10 (1.0)«	262 (3.6)	5 (1.1)	263 (5.3)!
Wyoming	83 (1.7)	276 (1.0)	7 (0.8)«	269 (2.7)	10 (1.5)	267 (2.2)
TERRITORIES						
Guam	79 (1.0)»	239 (1.2)	13 (0.8)«	221 (2.4)	8 (0.6)	211 (3.0)
Virgin Islands	81 (0.8)»	223 (1.3)	15 (0.5)«	218 (2.1)	4 (0.5)<	*** (***)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

TABLE A.54 | **Students' Reports on the Frequency with Which They Do Mathematics Problems on Worksheets in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	45 (1.4)	218 (1.2)	37 (0.9)	219 (1.1)	18 (1.0)	215 (1.5)
Northeast	47 (4.4)	225 (2.7)	34 (2.5)	222 (2.6)	19 (2.7)	219 (3.3)
Southeast	40 (2.1)	205 (2.4)	39 (1.8)	212 (2.8)	22 (2.0)	209 (2.4)
Central	41 (3.2)	221 (2.8)	40 (1.9)	224 (2.0)	19 (2.1)	221 (3.3)
West	52 (1.7)	218 (2.1)	33 (1.0)	218 (2.0)	15 (1.4)	214 (3.1)
STATES						
Alabama	34 (1.5)	201 (1.9)	44 (1.6)	211 (1.7)	22 (1.9)	210 (2.9)
Arizona	47 (1.3)	213 (1.3)	35 (1.1)	217 (1.7)	18 (0.9)	210 (1.9)
Arkansas	34 (1.8)	201 (1.2)	44 (1.7)	214 (1.2)	22 (1.8)	210 (2.1)
California	47 (1.1)	204 (1.8)	32 (1.3)	211 (2.0)	21 (0.9)	208 (2.8)
Colorado	47 (1.5)	220 (1.2)	37 (1.3)	222 (1.3)	16 (1.0)	216 (2.2)
Connecticut	48 (1.8)	227 (1.6)	35 (1.4)	226 (1.5)	17 (1.1)	224 (2.4)
Delaware	47 (1.0)	215 (1.2)	37 (1.0)	221 (1.2)	16 (0.9)	211 (2.6)
Dist. Columbia	52 (1.0)	189 (0.7)	32 (1.0)	198 (1.2)	16 (0.9)	187 (1.8)
Florida	37 (1.7)	208 (1.6)	39 (1.6)	217 (2.1)	24 (1.6)	213 (2.3)
Georgia	40 (1.6)	211 (1.6)	41 (1.3)	219 (1.6)	19 (1.3)	212 (2.1)
Hawaii	31 (1.6)	210 (2.0)	38 (1.1)	216 (1.7)	31 (1.6)	214 (1.8)
Idaho	42 (2.1)	219 (1.3)	38 (1.8)	222 (1.3)	20 (1.5)	220 (1.5)
Indiana	42 (2.0)	219 (1.3)	39 (1.3)	221 (1.5)	19 (1.7)	218 (1.8)
Iowa	46 (2.5)	228 (1.1)	34 (1.7)	230 (1.5)	20 (1.8)	230 (2.2)
Kentucky	42 (2.1)	213 (1.5)	42 (1.7)	216 (1.4)	15 (1.6)	211 (2.7)
Louisiana	39 (1.7)	200 (1.9)	42 (1.3)	206 (1.6)	19 (1.5)	203 (2.4)
Maine	49 (1.7)	229 (1.3)	36 (1.5)	233 (1.3)	15 (1.4)	231 (2.0)
Maryland	42 (1.9)	215 (1.8)	35 (1.5)	219 (1.8)	22 (1.3)	214 (2.0)
Massachusetts	53 (1.7)	226 (1.5)	35 (1.4)	227 (1.7)	12 (1.2)	223 (2.3)
Michigan	46 (1.8)	217 (2.0)	35 (1.3)	222 (2.0)	19 (1.5)	217 (2.8)
Minnesota	46 (2.3)	225 (1.2)	36 (1.5)	230 (1.6)	19 (1.9)	229 (2.1)
Mississippi	35 (1.6)	195 (1.7)	43 (1.4)	205 (1.5)	22 (1.4)	200 (1.7)
Missouri	44 (2.7)	220 (1.8)	39 (2.0)	223 (1.6)	18 (2.0)	220 (2.3)
Nebraska	37 (2.3)	223 (1.8)	42 (1.8)	225 (1.7)	21 (1.7)	226 (1.9)
New Hampshire	50 (2.2)	229 (1.5)	35 (1.6)	229 (1.3)	15 (1.4)	227 (2.5)
New Jersey	40 (2.3)	224 (2.0)	39 (1.8)	228 (1.7)	21 (1.7)	226 (2.9)
New Mexico	36 (2.4)	208 (1.7)	38 (1.7)	216 (2.0)	26 (2.1)	213 (2.3)
New York	43 (1.8)	216 (1.8)	33 (1.5)	220 (1.8)	24 (1.5)	215 (2.0)
North Carolina	32 (1.6)	206 (1.6)	47 (1.2)	216 (1.6)	22 (1.1)	210 (1.5)
North Dakota	42 (2.7)	223 (1.4)	41 (2.4)	231 (1.2)	17 (1.7)	230 (1.5)
Ohio	48 (2.1)	217 (1.7)	38 (1.4)	219 (1.4)	14 (1.4)	215 (2.3)
Oklahoma	42 (2.2)	216 (1.3)	38 (1.6)	221 (1.4)	20 (1.9)	222 (1.9)
Pennsylvania	52 (2.2)	223 (1.7)	34 (1.4)	224 (1.7)	15 (1.5)	222 (2.9)
Rhode Island	52 (1.9)	213 (1.9)	33 (1.5)	216 (1.7)	15 (1.3)	213 (2.7)
South Carolina	34 (1.7)	204 (1.4)	42 (1.5)	215 (1.4)	24 (1.4)	215 (2.1)
Tennessee	36 (1.8)	205 (1.5)	45 (1.5)	214 (1.6)	20 (1.6)	208 (2.3)
Texas	52 (1.5)	218 (1.4)	34 (1.4)	220 (1.5)	14 (1.1)	208 (2.6)
Utah	46 (1.6)	221 (1.3)	34 (1.2)	226 (1.3)	21 (1.4)	223 (1.7)
Virginia	32 (1.8)	215 (2.0)	44 (1.4)	223 (1.6)	24 (1.7)	222 (2.0)
West Virginia	34 (1.9)	211 (1.5)	44 (1.8)	216 (1.3)	22 (1.6)	215 (1.8)
Wisconsin	45 (2.3)	226 (1.7)	39 (2.0)	231 (1.3)	16 (1.8)	226 (2.0)
Wyoming	57 (1.9)	223 (1.1)	30 (1.5)	227 (1.4)	12 (1.1)	223 (1.7)
TERRITORY						
Guam	42 (1.1)	192 (1.4)	32 (1.0)	194 (1.7)	25 (1.0)	187 (1.9)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.54 | **Students' Reports on the Frequency with Which They Do Mathematics Problems on Worksheets in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	22 (1.4)	256 (2.5)	42 (1.2)	266 (1.4)	36 (1.7)	273 (1.3)
Northeast	25 (4.3)	260 (7.1)	36 (2.3)	266 (4.3)	39 (3.7)	276 (3.0)
Southeast	20 (2.4)	248 (2.9)	47 (2.3)	260 (2.1)	33 (2.4)	262 (1.8)
Central	23 (2.7)	263 (4.1)	42 (3.1)	272 (2.6)	35 (3.9)	281 (3.4)
West	21 (2.1)	252 (3.3)	42 (1.8)	267 (3.3)	37 (3.2)	275 (2.4)
STATES						
Alabama	19 (2.1) >	243 (3.4)	46 (2.0)	250 (1.8)	35 (2.5)	258 (2.0)
Arizona	20 (1.7) >	253 (2.6)	41 (1.8) <	262 (1.3) >	40 (2.4)	273 (1.6) >
Arkansas	21 (1.9) >	245 (2.3)	43 (1.8)	255 (1.4)	36 (2.5)	262 (1.7)
California	30 (1.8) >	251 (2.4)	34 (2.0) «	259 (2.4)	36 (2.3)	269 (2.3)
Colorado	25 (2.0) >	261 (2.3)	42 (1.7)	272 (1.2) »	33 (2.2)	280 (1.3) >
Connecticut	28 (2.0) >	264 (1.9)	43 (1.8)	274 (1.7)	29 (1.8)	281 (2.0)
Delaware	38 (1.0) »	252 (1.2)	38 (1.1) «	263 (2.0)	24 (1.0)	278 (1.7)
Dist. Columbia	38 (1.1) »	225 (1.2)	41 (1.2) «	238 (1.6)	20 (0.9)	244 (2.7)
Florida	18 (1.6)	243 (2.4)	41 (1.6) «	256 (1.6)	41 (2.4)	270 (1.9)
Georgia	20 (1.8)	245 (2.0)	51 (1.8)	259 (1.5)	29 (2.0)	268 (1.8)
Hawaii	27 (1.1) »	243 (1.6) >	40 (1.1) «	256 (1.5) »	33 (1.0)	268 (1.4)
Idaho	13 (1.4)	267 (2.1) >	37 (1.6) <	272 (1.3)	50 (2.2)	278 (1.0)
Indiana	16 (1.6)	256 (1.9)	45 (1.6)	267 (1.3)	40 (2.1)	277 (1.8)
Iowa	25 (3.5)	276 (2.0)	39 (2.4)	282 (1.5)	35 (3.0)	288 (1.5) »
Kentucky	25 (1.9) »	252 (1.9)	45 (1.8)	261 (1.4) >	30 (2.2)	269 (1.9) >
Louisiana	22 (2.0) »	243 (2.5)	49 (1.6) <	249 (1.7)	29 (2.2)	255 (2.4)
Maine[1]	24 (2.4)	272 (2.8)	41 (1.7)	277 (1.5)	35 (2.5)	283 (1.3)
Maryland	28 (2.2)	252 (2.1)	44 (1.4) <	267 (1.7)	28 (2.1)	274 (2.3)
Massachusetts[1]	25 (2.0)	263 (2.1)	39 (1.3)	272 (1.5)	35 (2.1)	279 (1.7)
Michigan	22 (2.3)	255 (3.1)	42 (1.8)	266 (1.8)	36 (2.3)	274 (2.0)
Minnesota	18 (2.0)	270 (2.0)	39 (1.8) <	280 (1.5) >	43 (2.4)	288 (1.5) >
Mississippi[1]	25 (1.8)	237 (2.1)	51 (1.6)	247 (1.7)	25 (2.0)	251 (2.1)
Missouri[1]	22 (2.3)	263 (2.2)	41 (1.7)	268 (1.3)	37 (2.5)	277 (1.9)
Nebraska	21 (2.5) >	270 (2.8)	41 (2.1) «	274 (1.7)	38 (2.6)	284 (1.9)
New Hampshire	29 (2.0) »	272 (1.6)	41 (1.4) «	277 (1.1) >	30 (2.0)	284 (2.0)
New Jersey	31 (2.2) »	266 (2.6)	38 (1.3) «	271 (2.2)	31 (2.3)	277 (2.3)
New Mexico	22 (2.1) >	253 (2.1)	40 (1.9)	256 (1.3)	38 (2.3)	265 (1.2)
New York	31 (3.2) »	260 (3.4)	36 (1.6) «	268 (2.4)	33 (2.9)	269 (3.0)
North Carolina	24 (1.6) >	248 (2.5) >	52 (1.3)	258 (1.3) »	24 (1.6)	266 (2.0) >
North Dakota	16 (2.0)	278 (2.3)	39 (2.2)	283 (1.5)	45 (2.4)	284 (1.3)
Ohio	29 (2.1) »	258 (2.1)	45 (2.4)	267 (1.6) >	26 (3.1)	278 (2.8)
Oklahoma	13 (1.6)	256 (2.9)	43 (2.1)	266 (1.7)	44 (2.3)	272 (1.6)
Pennsylvania	24 (2.0) >	260 (2.6)	42 (1.8)	271 (1.7)	34 (2.2)	278 (2.1)
Rhode Island	29 (0.9) »	257 (1.5) »	41 (1.0) <	265 (1.2) »	30 (1.0) «	273 (1.3)
South Carolina[1]	25 (1.6)	250 (2.3)	49 (1.5)	261 (1.3)	26 (1.6)	268 (1.9)
Tennessee[1]	25 (2.3)	252 (2.1)	47 (1.8)	259 (1.6)	28 (2.5)	262 (3.0)
Texas	27 (2.0) >	254 (2.0)	47 (1.6)	263 (1.7) >	26 (2.1)	275 (2.3) >
Utah[1]	13 (1.3)	260 (2.3)	34 (1.4)	270 (1.1)	53 (1.7)	280 (1.0)
Virginia	23 (1.6) »	254 (2.0)	50 (1.4) <	267 (1.3)	27 (1.6)	279 (1.9)
West Virginia	13 (1.1)	248 (2.2)	44 (1.7)	257 (1.2)	43 (2.1)	263 (1.5)
Wisconsin	21 (2.2)	266 (2.8)	38 (2.3) <	277 (1.6)	41 (3.2)	284 (1.7)
Wyoming	21 (1.7) »	268 (1.5)	38 (1.7) <	273 (1.3)	41 (1.7)	279 (1.3)
TERRITORIES						
Guam	22 (1.1) »	223 (1.7) »	41 (1.3) «	233 (1.7)	37 (1.2)	243 (1.7)
Virgin Islands	18 (0.9) »	214 (2.2) >	51 (1.4) «	224 (1.5) >	31 (1.3)	224 (1.6)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.55 | **Teachers' Reports on the Frequency with Which Students Work in Small Groups in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	65 (2.9)	218 (1.4)	27 (2.3)	216 (1.8)	8 (1.4)	215 (3.0)
Northeast	68 (4.0)	225 (3.3)	22 (3.1)	208 (3.0)	11 (3.1)	219 (5.8)!
Southeast	67 (5.7)	207 (3.1)	26 (5.0)	209 (2.7)	7 (1.6)	208 (5.8)!
Central	57 (8.1)	224 (2.2)	30 (5.9)	225 (3.5)!	13 (4.2)	219 (4.3)!
West	69 (3.8)	219 (2.7)	28 (3.3)	216 (2.4)	3 (1.3)	*** (***)
STATES						
Alabama	60 (3.7)	206 (2.2)	29 (3.4)	211 (2.0)	11 (2.1)	204 (2.4)!
Arizona	62 (3.3)	216 (1.5)	27 (2.9)	213 (2.1)	11 (2.0)	209 (2.9)
Arkansas	38 (3.5)	207 (2.3)	40 (3.7)	209 (1.6)	21 (3.0)	212 (1.8)
California	72 (3.3)	208 (1.7)	23 (3.0)	207 (3.2)	4 (1.2)	194 (4.8)!
Colorado	73 (2.9)	221 (1.3)	22 (2.8)	216 (2.3)	5 (1.3)	216 (4.6)!
Connecticut	66 (3.7)	230 (1.5)	25 (3.1)	227 (3.1)	8 (1.7)	209 (3.6)!
Delaware	55 (1.1)	218 (1.0)	34 (1.1)	218 (1.2)	11 (1.1)	213 (2.8)
Dist. Columbia	85 (0.6)	192 (0.8)	12 (0.4)	186 (2.0)	4 (0.4)	186 (4.0)
Florida	70 (3.0)	212 (1.5)	23 (2.7)	216 (2.4)	7 (1.4)	207 (3.4)!
Georgia	68 (2.7)	215 (1.7)	21 (1.9)	212 (2.2)	11 (2.0)	212 (4.6)
Hawaii	54 (3.5)	215 (1.6)	35 (3.0)	213 (2.1)	11 (1.8)	203 (3.0)
Idaho	65 (2.8)	221 (1.3)	26 (3.0)	219 (2.1)	9 (1.7)	222 (2.4)
Indiana	50 (4.0)	221 (1.5)	37 (3.6)	218 (1.7)	13 (2.0)	218 (2.5)
Iowa	60 (3.4)	231 (1.3)	34 (3.4)	226 (1.6)	5 (1.6)	225 (4.6)!
Kentucky	74 (3.6)	215 (1.4)	21 (3.0)	208 (1.7)	5 (2.0)	207 (3.2)!
Louisiana	63 (4.2)	203 (1.9)	25 (3.4)	203 (3.4)	12 (2.7)	200 (3.3)!
Maine	71 (3.1)	231 (1.3)	26 (3.0)	230 (1.8)	3 (1.2)	*** (***)
Maryland	78 (2.7)	218 (1.7)	19 (2.9)	218 (4.0)	3 (1.2)	209 (7.7)!
Massachusetts	61 (3.8)	227 (1.7)	25 (2.7)	229 (2.0)	14 (2.7)	221 (3.4)!
Michigan	64 (3.7)	221 (2.3)	30 (3.2)	217 (3.1)	6 (1.8)	216 (6.2)!
Minnesota	61 (3.5)	227 (1.7)	33 (3.4)	228 (1.5)	6 (1.4)	225 (4.3)!
Mississippi	57 (4.0)	198 (2.0)	32 (3.5)	204 (2.2)	11 (2.1)	200 (3.2)!
Missouri	53 (3.8)	221 (2.1)	35 (3.5)	223 (2.2)	12 (2.1)	220 (2.7)
Nebraska	63 (3.7)	226 (1.8)	34 (3.9)	224 (1.4)	4 (1.2)	214 (5.0)!
New Hampshire	67 (3.2)	231 (1.3)	28 (3.2)	225 (1.9)	5 (1.3)	221 (3.4)!
New Jersey	63 (4.2)	228 (2.0)	26 (3.6)	231 (2.3)	11 (2.3)	213 (3.7)!
New Mexico	60 (3.6)	212 (1.5)	29 (3.4)	216 (1.7)	11 (2.3)	204 (3.7)!
New York	58 (2.8)	218 (1.8)	27 (2.2)	217 (2.7)	14 (2.1)	213 (3.3)
North Carolina	63 (3.1)	213 (1.4)	31 (2.8)	212 (2.0)	6 (1.3)	207 (5.5)!
North Dakota	45 (4.0)	226 (1.3)	41 (3.9)	230 (1.2)	14 (3.0)	227 (2.3)!
Ohio	58 (3.4)	219 (1.7)	28 (3.0)	215 (2.0)	13 (2.8)	214 (3.4)!
Oklahoma	49 (3.9)	219 (1.3)	38 (3.4)	220 (1.6)	13 (2.2)	220 (2.3)
Pennsylvania	59 (3.5)	225 (1.9)	30 (3.2)	221 (2.1)	12 (2.3)	219 (5.1)
Rhode Island	55 (3.5)	214 (2.1)	30 (3.0)	218 (2.7)	15 (2.1)	207 (4.6)
South Carolina	66 (3.3)	212 (1.3)	25 (2.9)	210 (2.1)	9 (1.9)	211 (4.3)!
Tennessee	56 (3.1)	208 (1.9)	34 (2.9)	212 (2.0)	10 (2.1)	212 (3.3)!
Texas	70 (3.4)	218 (1.7)	24 (3.0)	218 (3.2)	6 (1.8)	212 (5.2)!
Utah	65 (3.2)	224 (1.1)	28 (3.0)	223 (1.8)	7 (1.4)	215 (4.5)
Virginia	65 (3.2)	219 (1.8)	26 (3.1)	223 (2.6)	9 (2.1)	213 (4.4)!
West Virginia	57 (3.3)	214 (1.6)	30 (3.1)	213 (1.7)	13 (2.7)	210 (2.2)!
Wisconsin	65 (3.6)	229 (1.3)	31 (3.6)	226 (1.9)	3 (1.2)	230 (3.5)!
Wyoming	69 (3.3)	224 (1.3)	23 (2.7)	225 (1.6)	8 (2.2)	225 (3.1)!
TERRITORY						
Guam	64 (1.3)	192 (1.2)	21 (1.3)	188 (1.6)	15 (0.8)	192 (2.9)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.55 | **Teachers' Reports on the Frequency with Which Students Work in Small Groups in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	51 (2.6)	269 (1.6)	32 (2.6)	266 (2.2)	17 (2.2)	267 (2.9)
Northeast	50 (4.7)	271 (4.7)	28 (4.7)	266 (5.1)	22 (3.7)	260 (5.7)
Southeast	47 (5.4)	262 (2.4)	38 (5.6)	263 (3.5)	15 (3.1)	260 (4.3)!
Central	51 (5.3)	273 (4.8)	32 (5.3)	274 (4.2)!	17 (4.3)	282 (5.2)!
West	56 (4.7)	269 (2.4)	29 (4.2)	264 (3.7)	15 (5.1)	266 (4.3)!
STATES						
Alabama	45 (3.9)	250 (3.3)	36 (3.5)	255 (2.3)	19 (3.2)	249 (3.1)
Arizona	56 (4.1)	264 (1.9) >	31 (3.9)	266 (2.7)	13 (2.1)	261 (5.1)
Arkansas	41 (3.7)	258 (2.2)	34 (3.4) <	256 (2.0)	25 (3.4)	252 (2.8) <
California	62 (3.5)	260 (2.3)	26 (2.6)	262 (3.0)	12 (2.7)	268 (4.1)!
Colorado	56 (3.1) <	273 (1.2) >	35 (2.9)	271 (2.4)	9 (1.8)	266 (3.3)!
Connecticut	47 (3.3)	276 (2.3)	36 (3.0)	274 (2.2)	17 (2.6)	267 (4.4)
Delaware	52 (0.7) »	258 (1.5)	31 (0.8) <	269 (1.6)	17 (0.8) <	262 (2.1)
Dist. Columbia	80 (0.7)	236 (1.0) »	14 (0.6)	227 (2.7) «	5 (0.5) »	236 (4.9)
Florida	53 (2.9)	260 (2.2)	34 (2.8)	259 (2.3)	13 (1.6)	257 (3.7)
Georgia	52 (3.1)	257 (2.0)	35 (3.0)	261 (2.2)	13 (1.8) »	254 (3.4)
Hawaii	46 (0.9) »	258 (1.1) »	36 (0.9)	256 (1.7)	19 (0.8) «	259 (1.7)
Idaho	61 (3.2)	275 (1.0)	29 (3.2)	277 (1.8) >	10 (1.7)	268 (1.8)
Indiana	38 (3.0)	272 (2.0)	43 (3.1)	271 (2.0)	19 (2.9)	261 (2.3)
Iowa	50 (4.6)	286 (1.5) »	33 (4.4)	279 (2.0)	17 (4.0)	282 (3.0)!
Kentucky	52 (3.5)	263 (1.9)	38 (3.3)	261 (1.6)	9 (1.9)	262 (4.6)
Louisiana	51 (4.1)	249 (2.7)	30 (3.9)	255 (2.5)	19 (3.1)	246 (2.2)
Maine[1]	69 (3.7)	278 (1.4)	23 (3.2)	282 (2.0)	8 (2.3)	274 (3.8)!
Maryland	57 (3.7)	266 (2.3)	31 (3.1)	269 (3.0)	12 (2.2)	258 (4.4)
Massachusetts[1]	44 (3.8)	273 (2.2)	30 (3.2)	274 (2.8)	26 (3.4)	268 (2.4)
Michigan	56 (3.7) >	265 (2.2)	33 (3.3)	268 (2.7)	11 (2.2)	270 (5.1)!
Minnesota	51 (4.5)	283 (1.5)	37 (3.8) <	280 (1.9) >	12 (2.7)	280 (2.8)!
Mississippi[1]	40 (3.6)	244 (2.9)	45 (3.3)	247 (1.6)	14 (2.8)	243 (3.0)
Missouri[1]	40 (3.7)	271 (1.7)	39 (3.7)	272 (1.7)	22 (3.3)	269 (2.4)
Nebraska	49 (4.6)	278 (1.9)	40 (4.6)	277 (1.9)	12 (2.9)	276 (3.6)!
New Hampshire	59 (3.4)	278 (1.3) >	33 (3.3)	278 (1.5)	8 (1.6)	274 (3.9)!
New Jersey	52 (4.5)	272 (2.4)	37 (4.7)	270 (3.7)	10 (2.1)	273 (5.8)
New Mexico	58 (3.3)	259 (1.0)	30 (2.6) <	259 (2.1)	12 (2.5)	262 (3.2)!
New York	37 (4.1)	264 (2.9)	36 (3.4)	269 (3.7)	27 (3.7)	263 (5.0)
North Carolina	50 (3.4)	258 (1.6) »	36 (3.2)	257 (2.3)	14 (2.3)	256 (4.1)
North Dakota	39 (4.0)	284 (1.9)	34 (4.3)	285 (1.7)	27 (3.6)	278 (1.4)
Ohio	39 (4.1)	271 (2.4)	48 (3.9)	268 (2.4)	13 (2.7)	270 (3.5)
Oklahoma	33 (3.6)	267 (2.2)	37 (2.9)	268 (1.9)	30 (3.4) >	267 (2.2)
Pennsylvania	41 (3.7)	269 (3.0)	38 (3.3)	274 (2.1)	21 (2.6)	267 (3.0)
Rhode Island	38 (1.0) »	265 (1.0) >	37 (1.2) <	263 (1.2)	25 (0.9) «	269 (2.1) >
South Carolina[1]	47 (3.8)	261 (2.0)	39 (2.7)	260 (2.3)	14 (2.4)	261 (3.6)
Tennessee[1]	38 (3.6)	257 (1.7)	39 (3.4)	260 (2.4)	22 (3.3)	256 (4.3)
Texas	55 (3.4) >	265 (2.1) >	33 (3.0) «	264 (2.6)	12 (2.1)	265 (3.5)
Utah[1]	51 (2.9)	276 (1.2)	28 (2.3)	272 (1.8)	21 (1.9)	271 (2.0)
Virginia	53 (3.1)	269 (1.6)	31 (2.4) <	267 (2.2)	16 (2.4)	262 (3.2)
West Virginia	42 (3.7)	261 (1.5)	36 (3.5)	256 (2.0)	22 (3.0)	257 (2.1)
Wisconsin	53 (5.0)	280 (2.3)	35 (4.8)	276 (2.6)	11 (2.0)	276 (2.5)
Wyoming	58 (3.1) <	278 (1.1) >	29 (2.7)	270 (1.7)	12 (1.8) >	268 (2.8)
TERRITORIES						
Guam	38 (1.0) >	237 (2.4)	47 (0.9) >	238 (1.7)	15 (1.0) «	220 (2.5) <
Virgin Islands	29 (1.0) «	215 (2.1)	37 (1.0)	222 (1.5) «	34 (0.8) »	224 (1.8)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.56 | **Teachers' Reports on the Frequency with Which Students Write Reports or Do Projects in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	1 (0.4)	*** (***)	18 (2.1)	219 (3.4)	80 (2.2)	216 (1.1)
Northeast	0 (0.2)	*** (***)	24 (4.9)	228 (5.7)!	76 (5.0)	218 (2.1)
Southeast	0 (0.3)	*** (***)	17 (3.8)	205 (3.3)!	83 (3.8)	208 (2.1)
Central	4 (1.3)	*** (***)	10 (3.3)	223 (8.0)!	87 (4.0)	223 (1.9)
West	1 (0.6)	*** (***)	24 (4.9)	220 (7.2)!	75 (5.0)	217 (2.5)
STATES						
Alabama	3 (1.1)	*** (***)	21 (3.2)	207 (2.3)	76 (3.4)	207 (1.8)
Arizona	4 (1.2)	209 (6.1)!	18 (2.1)	216 (3.0)	79 (2.2)	214 (1.2)
Arkansas	0 (0.2)	*** (***)	9 (1.4)	205 (3.5)	91 (1.4)	210 (1.1)
California	6 (1.4)	197 (6.0)!	27 (3.0)	209 (3.1)	67 (3.3)	208 (1.7)
Colorado	3 (1.0)	215 (5.0)!	27 (2.5)	221 (1.8)	70 (2.4)	220 (1.3)
Connecticut	3 (1.0)	231 (7.3)!	20 (2.0)	230 (2.4)	77 (2.2)	227 (1.6)
Delaware	0 (0.1)	*** (***)	19 (0.7)	227 (1.9)	80 (0.6)	215 (1.0)
Dist. Columbia	9 (0.4)	188 (2.5)	37 (1.0)	192 (1.4)	54 (1.0)	190 (1.3)
Florida	3 (0.8)	211 (6.7)!	26 (3.1)	210 (2.0)	71 (3.1)	213 (1.5)
Georgia	1 (0.6)	*** (***)	20 (2.5)	215 (3.5)	78 (2.4)	213 (1.5)
Hawaii	4 (1.0)	213 (4.6)!	20 (2.2)	219 (2.9)	76 (2.2)	212 (1.4)
Idaho	2 (0.9)	*** (***)	14 (2.0)	221 (2.5)	84 (1.9)	220 (1.1)
Indiana	1 (0.7)	*** (***)	14 (2.7)	219 (3.0)	85 (2.8)	220 (1.1)
Iowa	1 (0.4)	*** (***)	19 (2.9)	232 (2.0)	80 (3.0)	228 (1.2)
Kentucky	5 (1.7)	215 (4.7)!	26 (3.2)	215 (2.1)	68 (3.4)	213 (1.4)
Louisiana	4 (1.1)	197 (5.3)!	18 (2.7)	202 (4.7)	78 (2.7)	203 (1.6)
Maine	0 (0.4)	*** (***)	22 (3.0)	230 (2.0)	78 (3.0)	231 (1.3)
Maryland	6 (1.6)	216 (6.9)!	15 (2.4)	221 (3.4)	79 (3.0)	218 (1.6)
Massachusetts	2 (0.7)	*** (***)	18 (3.1)	230 (3.0)	81 (3.2)	226 (1.5)
Michigan	2 (0.9)	*** (***)	24 (3.3)	217 (2.6)	74 (3.4)	219 (2.0)
Minnesota	4 (2.0)	227 (5.4)!	15 (2.5)	228 (2.6)	81 (2.2)	227 (1.3)
Mississippi	2 (0.7)	*** (***)	20 (3.0)	198 (2.5)	78 (2.9)	201 (1.4)
Missouri	2 (0.9)	*** (***)	19 (3.1)	222 (3.1)	79 (3.4)	222 (1.5)
Nebraska	1 (0.7)	*** (***)	19 (2.4)	229 (2.3)	80 (2.6)	223 (1.4)
New Hampshire	3 (1.0)	228 (5.3)!	21 (2.7)	233 (2.8)	76 (3.0)	228 (1.3)
New Jersey	2 (1.2)	*** (***)	26 (3.3)	230 (3.0)	72 (3.5)	226 (1.7)
New Mexico	3 (1.0)	*** (***)	22 (3.3)	215 (2.1)	75 (3.4)	212 (1.4)
New York	3 (1.0)	*** (***)	22 (2.5)	221 (2.2)	76 (2.7)	216 (1.5)
North Carolina	3 (0.9)	207 (3.8)!	18 (2.1)	212 (2.6)	79 (2.2)	212 (1.1)
North Dakota	2 (1.1)	*** (***)	15 (3.1)	227 (2.5)!	82 (3.3)	228 (0.9)
Ohio	1 (0.7)	*** (***)	17 (2.8)	219 (2.7)	81 (2.8)	217 (1.5)
Oklahoma	2 (0.6)	*** (***)	16 (2.7)	220 (2.4)	83 (2.8)	219 (1.1)
Pennsylvania	2 (0.9)	228(16.2)!	17 (2.4)	226 (2.9)	81 (2.5)	222 (1.7)
Rhode Island	1 (0.7)	*** (***)	17 (2.5)	219 (3.0)	82 (2.6)	213 (1.8)
South Carolina	1 (0.5)	*** (***)	15 (2.3)	212 (3.2)	84 (2.2)	211 (1.3)
Tennessee	3 (1.1)	195 (6.7)!	16 (2.4)	207 (3.8)	81 (2.4)	211 (1.4)
Texas	3 (1.1)	223 (7.7)!	19 (2.3)	215 (3.0)	77 (2.4)	217 (1.6)
Utah	3 (1.0)	236 (6.5)!	19 (2.5)	229 (2.3)	78 (2.7)	221 (1.1)
Virginia	2 (0.7)	*** (***)	15 (2.0)	218 (4.4)	84 (2.1)	220 (1.4)
West Virginia	1 (0.8)	*** (***)	17 (2.9)	215 (2.4)	82 (3.1)	213 (1.2)
Wisconsin	3 (1.1)	233 (8.5)!	27 (3.4)	230 (1.9)	70 (3.5)	227 (1.3)
Wyoming	3 (1.0)	230 (4.2)!	20 (2.7)	226 (1.6)	77 (3.0)	224 (1.1)
TERRITORY						
Guam	2 (0.2)	*** (***)	28 (1.1)	192 (1.5)	70 (1.1)	191 (1.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.56 | **Teachers' Reports on the Frequency with Which Students Write Reports or Do Projects in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	1 (0.3)	*** (***)	21 (2.1)	266 (2.5)	79 (2.1)	268 (1.2)
Northeast	1 (0.8)	*** (***)	32 (4.7)	268 (4.8)	67 (4.9)	268 (3.5)
Southeast	0 (0.0)	*** (***)	20 (5.1)	271 (5.0)!	80 (5.1)	260 (1.3)
Central	1 (0.7)	*** (***)	9 (3.3)	270 (5.9)!	90 (3.4)	275 (2.9)
West	1 (0.4)	*** (***)	22 (3.5)	260 (4.1)	77 (3.6)	270 (2.5)
STATES						
Alabama	1 (0.9)	*** (***)	22 (3.3)«	252 (3.3)	76 (3.4)»	252 (2.1)
Arizona	1 (0.3)<	*** (***)	20 (2.8)«	265 (2.7)>	80 (2.8)»	264 (1.8)
Arkansas	1 (0.9)	*** (***)	16 (2.6)«	255 (2.8)	83 (2.9)»	256 (1.4)
California	3 (1.0)	255 (3.9)!	31 (3.0)«	264 (3.4)	66 (3.0)»	260 (1.9)
Colorado	3 (1.0)	*** (***)	28 (3.0)«	272 (2.0)	70 (3.3)»	271 (1.4)>
Connecticut	2 (0.8)	*** (***)	25 (3.1)«	279 (3.0)	73 (3.1)»	271 (1.5)>
Delaware	1 (0.3)	*** (***)	29 (1.0)«	257 (2.0)	70 (1.0)»	264 (1.1)>
Dist. Columbia	4 (0.4)	*** (***)	45 (1.4)«	236 (1.7)	50 (1.4)»	236 (1.5)»
Florida	1 (0.4)	*** (***)	17 (2.5)«	262 (4.2)	82 (2.5)»	259 (1.6)
Georgia	1 (0.6)	*** (***)	21 (3.0)«	254 (3.1)	78 (3.1)»	259 (1.6)
Hawaii	2 (0.2)<	*** (***)	16 (0.7)«	263 (2.2)»	83 (0.7)»	256 (0.9)>
Idaho	0 (0.2)«	*** (***)	15 (2.0)«	278 (2.1)	85 (2.0)»	274 (0.7)>
Indiana	1 (0.5)	*** (***)	18 (2.5)«	271 (3.1)	81 (2.5)»	269 (1.5)
Iowa	1 (0.9)	*** (***)	16 (3.5)«	281 (2.6)!	83 (3.6)»	283 (1.1)>
Kentucky	3 (1.5)	262 (8.1)!	26 (3.3)«	262 (2.6)	70 (3.6)»	262 (1.4)>
Louisiana	1 (0.5)	*** (***)	20 (3.0)«	251 (3.8)	79 (3.1)»	249 (1.7)
Maine[1]	1 (0.7)	*** (***)	22 (3.4)	280 (2.5)	78 (3.5)	278 (1.2)
Maryland	1 (0.6)	*** (***)	23 (3.2)«	267 (4.4)	76 (3.3)»	265 (1.8)
Massachusetts[1]	0 (0.0)	*** (***)	19 (3.0)	280 (2.2)	81 (3.0)	270 (1.3)
Michigan	3 (1.5)	*** (***)	20 (3.7)«	260 (4.2)	77 (3.8)»	269 (1.8)
Minnesota	1 (0.6)	*** (***)	20 (3.3)«	278 (2.4)	79 (3.4)»	282 (1.2)»
Mississippi[1]	3 (1.1)	*** (***)	23 (3.0)	245 (3.1)	75 (3.2)	245 (1.5)
Missouri[1]	0 (0.1)	*** (***)	14 (2.2)	270 (2.8)	86 (2.2)	271 (1.1)
Nebraska	1 (0.5)	*** (***)	20 (3.0)«	277 (2.3)	79 (3.1)»	278 (1.3)
New Hampshire	3 (1.2)	281 (5.1)!>	37 (2.6)«	279 (1.5)>	60 (2.6)»	277 (1.4)
New Jersey	0 (0.4)	*** (***)	19 (3.0)«	275 (3.7)	81 (3.1)»	270 (1.9)
New Mexico	0 (0.3)«	*** (***)	22 (3.0)«	259 (2.3)	78 (2.9)»	259 (1.2)
New York	2 (1.2)	*** (***)	19 (2.6)«	266 (4.2)	80 (2.9)»	266 (2.4)
North Carolina	0 (0.3)	*** (***)	24 (3.2)«	260 (2.5)>	76 (3.2)»	257 (1.6)>
North Dakota	0 (0.0)	*** (***)	19 (3.5)«	284 (3.9)!	81 (3.5)»	283 (1.1)
Ohio	0 (0.1)	*** (***)	12 (2.3)«	261 (5.1)	88 (2.3)»	270 (1.7)
Oklahoma	0 (0.3)	*** (***)	16 (2.7)«	274 (3.1)	84 (2.7)»	266 (1.3)
Pennsylvania	1 (0.6)	*** (***)	16 (2.8)«	266 (3.7)	83 (2.8)»	271 (1.5)
Rhode Island	0 (0.1)	*** (***)	22 (0.8)«	264 (1.7)	77 (0.8)»	266 (0.9)»
South Carolina[1]	1 (0.6)	*** (***)	26 (3.2)	264 (3.0)	72 (3.3)	259 (1.4)
Tennessee[1]	1 (1.0)	*** (***)	21 (3.2)	259 (3.7)	78 (3.4)	258 (1.4)
Texas	1 (0.6)	*** (***)	24 (3.3)«	267 (3.8)>	74 (3.5)»	263 (1.5)>
Utah[1]	1 (0.8)	*** (***)	16 (2.2)	273 (2.3)	82 (2.3)	274 (1.0)
Virginia	0 (0.3)	*** (***)	20 (2.3)«	266 (3.1)	80 (2.4)»	267 (1.3)>
West Virginia	0 (0.0)	*** (***)	14 (2.4)«	261 (3.3)	86 (2.4)»	258 (1.1)
Wisconsin	0 (0.2)	*** (***)	29 (4.7)<	284 (2.9)!>	71 (4.7)»	276 (1.3)
Wyoming	0 (0.2)«	*** (***)	13 (1.7)«	277 (3.2)	87 (1.6)»	274 (0.9)>
TERRITORIES						
Guam	2 (0.3)	*** (***)	31 (1.5)	245 (1.7)>	67 (1.5)	231 (1.3)
Virgin Islands	0 (0.0)	*** (***)	19 (0.6)«	220 (1.6)	81 (0.6)»	221 (1.4)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

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TABLE A.57 | **Students' Reports on the Frequency with Which They Work in Small Groups in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	37 (1.1)	213 (1.1)	19 (0.8)	228 (1.6)	44 (1.2)	217 (0.9)
Northeast	40 (2.7)	217 (3.2)	19 (1.8)	235 (4.6)	42 (2.9)	223 (1.7)
Southeast	35 (1.7)	202 (2.4)	16 (1.4)	216 (3.4)	49 (2.3)	211 (1.6)
Central	34 (2.1)	219 (2.7)	21 (1.9)	231 (2.7)	45 (2.5)	220 (2.5)
West	40 (2.2)	213 (1.6)	18 (1.3)	228 (3.1)	42 (2.1)	217 (1.8)
STATES						
Alabama	35 (1.1)	202 (2.0)	16 (0.9)	216 (2.8)	50 (1.4)	207 (1.8)
Arizona	40 (1.2)	209 (1.5)	17 (0.8)	224 (1.9)	43 (1.2)	215 (1.2)
Arkansas	31 (1.1)	201 (1.3)	14 (0.8)	217 (2.3)	55 (1.2)	211 (1.0)
California	41 (1.8)	202 (2.1)	19 (1.1)	216 (2.8)	41 (1.8)	209 (1.8)
Colorado	41 (1.4)	216 (1.4)	21 (1.0)	229 (1.6)	38 (1.5)	219 (1.3)
Connecticut	40 (1.5)	222 (1.4)	21 (1.0)	238 (1.8)	40 (1.5)	223 (1.8)
Delaware	37 (1.7)	214 (1.5)	17 (0.8)	227 (2.0)	46 (1.6)	215 (1.3)
Dist. Columbia	54 (0.9)	188 (0.9)	13 (0.7)	203 (2.4)	33 (0.9)	192 (1.1)
Florida	36 (1.2)	208 (1.9)	14 (0.9)	220 (2.7)	50 (1.5)	214 (1.5)
Georgia	37 (1.5)	209 (2.0)	15 (0.7)	224 (2.5)	48 (1.8)	215 (1.2)
Hawaii	42 (1.3)	207 (1.9)	15 (0.9)	225 (2.4)	43 (1.4)	214 (1.5)
Idaho	39 (1.7)	216 (1.3)	22 (1.2)	228 (1.5)	40 (1.4)	220 (1.1)
Indiana	34 (1.2)	214 (1.6)	18 (0.9)	231 (1.4)	48 (1.3)	219 (1.2)
Iowa	35 (1.5)	228 (1.6)	26 (1.1)	238 (1.4)	39 (1.6)	225 (1.3)
Kentucky	41 (1.8)	212 (1.5)	19 (0.9)	225 (1.9)	40 (1.9)	211 (1.0)
Louisiana	41 (1.5)	199 (1.7)	15 (0.8)	216 (2.3)	44 (1.4)	204 (1.7)
Maine	38 (1.9)	229 (1.4)	32 (1.4)	237 (1.3)	30 (1.9)	228 (1.4)
Maryland	42 (1.5)	212 (1.8)	23 (1.1)	228 (1.8)	36 (1.6)	215 (1.7)
Massachusetts	39 (1.6)	221 (1.7)	19 (1.3)	234 (1.8)	43 (2.0)	226 (1.6)
Michigan	40 (1.5)	214 (2.1)	21 (1.2)	228 (2.4)	39 (1.5)	218 (1.8)
Minnesota	35 (1.6)	224 (1.4)	25 (1.3)	235 (1.4)	40 (1.7)	227 (1.3)
Mississippi	41 (1.5)	194 (1.5)	12 (0.8)	212 (1.8)	47 (1.5)	203 (1.3)
Missouri	32 (1.3)	215 (1.7)	20 (1.3)	232 (1.8)	48 (1.7)	221 (1.3)
Nebraska	31 (2.0)	220 (1.9)	26 (1.3)	231 (2.2)	43 (1.9)	224 (1.3)
New Hampshire	41 (1.5)	227 (1.9)	21 (1.0)	236 (1.5)	39 (1.9)	227 (1.5)
New Jersey	41 (2.2)	223 (2.5)	17 (1.1)	231 (1.7)	42 (2.1)	228 (1.7)
New Mexico	36 (1.3)	207 (2.1)	14 (0.7)	221 (2.6)	51 (1.3)	213 (1.4)
New York	38 (1.5)	210 (1.4)	15 (1.0)	224 (2.6)	47 (1.6)	221 (1.5)
North Carolina	36 (1.2)	205 (1.5)	19 (0.8)	224 (1.9)	45 (1.2)	211 (1.3)
North Dakota	30 (1.7)	223 (1.3)	24 (1.4)	234 (1.1)	47 (2.0)	227 (1.2)
Ohio	38 (1.4)	217 (1.9)	19 (1.2)	226 (1.8)	43 (1.9)	215 (1.3)
Oklahoma	31 (1.6)	211 (1.4)	17 (1.0)	228 (1.8)	52 (1.7)	221 (1.2)
Pennsylvania	38 (1.8)	220 (2.2)	20 (1.1)	232 (1.7)	43 (1.8)	222 (1.6)
Rhode Island	40 (1.4)	210 (2.2)	17 (0.9)	226 (2.3)	43 (1.3)	214 (1.6)
South Carolina	40 (1.6)	205 (1.6)	14 (0.8)	221 (1.8)	47 (1.7)	214 (1.3)
Tennessee	39 (1.6)	206 (1.7)	14 (0.9)	215 (2.2)	47 (1.6)	211 (1.6)
Texas	40 (1.9)	212 (1.6)	18 (1.0)	228 (2.0)	42 (2.0)	217 (1.4)
Utah	38 (1.2)	220 (1.3)	19 (0.9)	229 (1.6)	43 (1.3)	223 (1.3)
Virginia	33 (1.3)	215 (1.7)	19 (1.1)	228 (2.6)	48 (1.4)	220 (1.3)
West Virginia	34 (1.5)	211 (1.5)	18 (1.1)	220 (2.0)	48 (1.8)	214 (1.2)
Wisconsin	38 (1.5)	223 (1.8)	25 (1.0)	237 (1.3)	38 (1.8)	226 (1.2)
Wyoming	40 (1.5)	223 (1.3)	21 (1.0)	230 (1.3)	39 (1.5)	223 (1.1)
TERRITORY						
Guam	49 (1.4)	189 (1.2)	12 (0.8)	191 (3.4)	40 (1.2)	194 (1.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.57 | **Students' Reports on the Frequency with Which They Work in Small Groups in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	36 (1.3)	265 (1.5)	26 (1.0)	270 (1.4)	38 (1.8)	266 (1.3)
Northeast	34 (3.4)	268 (5.1)	27 (2.3)	270 (3.6)	39 (3.1)	267 (3.2)
Southeast	36 (2.3)	257 (2.2)	25 (1.5)	262 (2.1)	39 (2.3)	256 (2.3)
Central	35 (2.0)	271 (3.1)	28 (2.3)	276 (3.1)	37 (3.9)	272 (2.2)
West	38 (2.6)	263 (2.4)	24 (2.0)	271 (2.8)	38 (4.1)	268 (2.5)
STATES						
Alabama	32 (2.2)»	249 (2.8)	23 (1.3)	256 (2.4)	46 (2.4)«	251 (1.8)
Arizona	37 (1.8)	264 (1.7)>	26 (1.3)	267 (1.5)	37 (1.6)	263 (1.8)
Arkansas	32 (2.1)»	256 (1.8)>	23 (1.3)	260 (1.7)	45 (2.3)<	253 (1.7)
California	43 (2.2)>	257 (2.5)	23 (1.2)	266 (2.2)	34 (2.3)	260 (2.1)
Colorado	41 (2.0)	271 (1.6)	28 (1.2)	275 (1.5)	31 (1.7)	270 (1.8)
Connecticut	32 (1.8)	271 (1.9)	28 (1.1)	280 (1.5)	40 (2.1)	271 (2.0)
Delaware	39 (1.0)»	257 (1.7)	27 (0.8)	269 (1.5)	34 (0.9)«	263 (1.4)>
Dist. Columbia	53 (1.1)>	234 (1.1)»	17 (0.8)	242 (2.5)	30 (0.9)<	230 (2.0)
Florida	35 (1.9)>	255 (2.1)	23 (1.5)	266 (1.8)	42 (1.8)«	258 (2.1)
Georgia	35 (2.3)>	255 (1.8)	25 (1.3)«	267 (1.7)	40 (2.1)	257 (1.7)
Hawaii	40 (1.2)»	252 (1.4)»	23 (1.1)	262 (1.3)	37 (1.1)«	259 (1.4)
Idaho	44 (2.1)»	276 (1.0)>	25 (1.4)<	277 (1.3)	31 (1.6)«	270 (1.2)
Indiana	29 (1.8)»	271 (1.9)	29 (1.8)	274 (2.0)	42 (1.9)<	266 (1.7)
Iowa	32 (2.4)	286 (1.4)>	33 (2.2)	285 (1.3)	35 (2.9)	278 (1.8)
Kentucky	38 (2.6)»	260 (1.8)>	31 (1.4)	264 (1.6)	32 (2.3)«	260 (1.6)
Louisiana	35 (2.1)»	247 (2.3)	23 (1.3)	257 (2.3)	42 (2.5)«	247 (1.8)
Maine[1]	40 (2.2)	279 (1.3)	31 (1.7)	281 (1.6)	28 (2.0)	274 (1.6)
Maryland	37 (2.1)	261 (1.9)	28 (1.3)	271 (2.2)	34 (2.0)<	262 (1.6)
Massachusetts[1]	31 (1.7)	270 (2.1)	24 (1.5)	276 (2.0)	45 (1.9)	271 (1.5)
Michigan	40 (2.5)»	265 (2.1)	23 (1.5)	269 (2.1)	37 (2.3)«	267 (1.7)>
Minnesota	40 (2.8)»	281 (1.2)	27 (1.4)	282 (1.3)	34 (2.7)<	283 (1.7)»
Mississippi[1]	27 (1.6)	239 (2.2)	24 (1.4)	254 (2.0)	49 (2.1)	245 (1.6)
Missouri[1]	31 (1.9)	267 (2.5)	29 (1.4)	276 (1.2)	40 (2.0)	269 (1.5)
Nebraska	37 (2.7)>	276 (1.6)	29 (1.6)«	280 (1.6)	34 (2.7)	275 (1.5)
New Hampshire	39 (1.7)>	277 (1.5)	33 (1.2)	280 (1.5)	28 (1.8)	276 (1.5)
New Jersey	36 (2.4)»	268 (2.3)	29 (1.8)	279 (1.9)	35 (2.3)«	268 (2.7)
New Mexico	37 (1.8)»	257 (1.3)	22 (1.1)	262 (1.8)	41 (1.6)«	259 (1.2)>
New York	29 (1.5)»	257 (3.3)	23 (1.5)	277 (2.7)	48 (1.7)«	265 (2.3)
North Carolina	38 (2.0)»	257 (1.7)»	28 (1.6)	262 (1.6)	34 (2.3)«	256 (2.0)>
North Dakota	32 (2.1)»	283 (1.5)	26 (2.0)	285 (1.7)	42 (2.4)<	281 (1.4)
Ohio	31 (2.3)»	267 (2.2)	32 (2.1)	271 (1.5)	37 (2.3)«	265 (2.3)
Oklahoma	27 (1.4)>	268 (2.1)	23 (1.4)	272 (1.8)	51 (2.0)	265 (1.5)
Pennsylvania	32 (1.9)»	269 (2.4)	27 (1.3)	275 (1.9)	41 (2.1)«	270 (1.8)
Rhode Island	33 (1.1)»	262 (1.5)	25 (1.0)»	268 (1.5)	42 (1.0)«	267 (1.3)»
South Carolina[1]	37 (1.8)	258 (1.6)	25 (1.3)	265 (1.8)	38 (2.1)	259 (1.6)
Tennessee[1]	31 (1.7)	254 (1.8)	24 (1.6)	264 (1.9)	45 (2.2)	258 (2.1)
Texas	38 (2.4)»	261 (2.1)	27 (1.5)	269 (1.9)	34 (2.2)«	263 (1.7)>
Utah[1]	36 (1.6)	271 (1.2)	18 (0.9)	277 (1.5)	46 (1.8)	274 (1.1)
Virginia	35 (1.6)	265 (1.8)	28 (1.4)	274 (1.9)	37 (1.9)	264 (1.8)
West Virginia	31 (2.0)»	258 (1.8)	23 (1.4)	264 (1.5)>	46 (2.3)<	256 (1.3)
Wisconsin	38 (2.4)»	277 (2.0)	31 (1.5)	281 (1.8)	31 (2.1)<	275 (2.0)
Wyoming	47 (2.1)	277 (1.0)	25 (1.3)«	274 (1.5)	28 (1.8)	270 (1.8)
TERRITORIES						
Guam	30 (0.9)»	229 (1.9)	18 (1.0)	242 (2.4)	52 (1.2)«	235 (1.5)
Virgin Islands	39 (1.1)>	220 (1.3)>	15 (0.8)	230 (1.9)	45 (1.1)<	221 (1.5)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.58 | **Students' Reports on the Frequency with Which They Write Reports or Do Projects in Mathematics Class**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	6 (0.4)	240 (3.0)	18 (0.8)	265 (1.8)	77 (0.9)	269 (1.0)
Northeast	4 (0.8)	*** (***)	19 (1.3)	260 (3.1)	78 (1.7)	272 (3.1)
Southeast	7 (0.6)	230 (5.0)	18 (1.9)	261 (2.5)	76 (1.9)	260 (1.4)
Central	5 (1.1)	258 (5.9)»	16 (1.5)	273 (3.6)	79 (1.7)	274 (2.3)
West	6 (0.6)	241 (4.1)	19 (1.7)	265 (4.3)	75 (1.9)	270 (2.0)
STATES						
Alabama	5 (0.7)<	229 (4.2)	19 (1.5)	249 (2.7)	76 (2.0)	254 (1.7)
Arizona	5 (0.5)«	239 (3.8)	18 (1.2)	265 (2.0)	77 (1.4)	266 (1.3)
Arkansas	5 (0.4)	234 (3.4)	16 (1.1)	254 (2.1)	79 (1.2)	257 (1.3)
California	9 (0.8)	242 (4.0)	26 (1.8)	256 (2.8)	64 (2.1)	265 (1.7)>
Colorado	6 (0.6)«	258 (3.9)	21 (1.2)	272 (1.8)	73 (1.4)>	273 (1.2)>
Connecticut	3 (0.4)<	244 (6.2)	21 (1.4)	272 (2.1)	76 (1.4)	275 (1.1)>
Delaware	4 (0.4)	234 (5.3)	20 (0.9)	257 (2.0)	76 (0.9)	265 (1.0)
Dist. Columbia	10 (0.8)«	221 (3.0)	24 (0.9)	236 (1.9)	67 (1.0)»	235 (1.2)
Florida	4 (0.5)«	230 (4.4)	15 (1.0)<	255 (2.7)	81 (1.3)»	262 (1.4)
Georgia	5 (0.6)«	245 (3.8)	18 (1.0)	255 (2.2)<	77 (1.2)»	260 (1.3)
Hawaii	9 (0.6)«	231 (3.4)	20 (0.9)	254 (2.1)	71 (1.0)»	261 (0.9)»
Idaho	5 (0.4)«	261 (3.5)	16 (1.0)<	274 (1.8)	80 (1.1)»	275 (0.8)
Indiana	3 (0.4)«	247 (3.4)	15 (1.1)	268 (2.4)	81 (1.2)	271 (1.1)
Iowa	4 (0.5)«	269 (3.3)	15 (1.1)	284 (1.8)	80 (1.3)»	283 (1.1)»
Kentucky	7 (0.8)	246 (3.4)	23 (1.3)	260 (1.5)	70 (1.7)	264 (1.2)>
Louisiana	4 (0.5)«	223 (4.3)	17 (1.6)	250 (2.5)	78 (1.7)	250 (1.8)
Maine[1]	4 (0.7)	262 (4.5)	17 (1.3)	279 (1.7)	79 (1.4)	279 (1.1)
Maryland	4 (0.5)<	227 (4.0)	18 (1.2)	261 (2.4)	78 (1.3)>	267 (1.4)
Massachusetts[1]	3 (0.3)	247 (5.0)	15 (1.4)	272 (1.8)	82 (1.5)	273 (1.1)
Michigan	5 (0.5)<	242 (3.3)	18 (1.4)	264 (2.4)	77 (1.6)	269 (1.5)
Minnesota	5 (0.6)<	264 (3.3)	16 (0.9)	280 (1.9)	79 (1.2)>	283 (1.1)»
Mississippi[1]	5 (0.5)	228 (5.1)	17 (1.6)	249 (3.0)	78 (1.9)	246 (1.1)
Missouri[1]	5 (0.6)	251 (3.4)	17 (1.1)	267 (2.1)	77 (1.3)	273 (1.2)
Nebraska	5 (0.5)«	259 (3.6)	18 (1.2)	276 (1.9)	77 (1.3)»	278 (1.3)
New Hampshire	3 (0.4)«	255 (4.5)	25 (1.7)<	277 (1.6)	73 (1.8)»	279 (1.0)>
New Jersey	3 (0.5)«	245 (4.6)	17 (1.5)	265 (2.4)<	79 (1.8)>	274 (1.9)
New Mexico	6 (0.5)<	245 (3.4)	17 (1.2)	259 (1.8)	77 (1.3)	260 (1.0)
New York	4 (0.7)<	233 (8.6)	20 (1.8)	260 (2.9)	76 (1.9)	269 (2.0)>
North Carolina	5 (0.6)«	232 (3.5)	21 (1.4)	258 (2.0)	73 (1.5)	259 (1.3)»
North Dakota	3 (0.4)«	271 (3.6)	13 (0.9)«	281 (1.5)	84 (1.1)»	283 (1.2)
Ohio	5 (0.7)	238 (3.7)<	15 (1.0)	261 (2.2)	81 (1.3)	271 (1.6)>
Oklahoma	3 (0.4)<	248 (5.5)	13 (1.0)	263 (2.0)	84 (1.2)	269 (1.2)>
Pennsylvania	4 (0.4)<	242 (4.6)	15 (1.1)	268 (2.9)	81 (1.3)	273 (1.4)
Rhode Island	3 (0.3)«	*** (***)	18 (0.9)»	265 (2.0)	79 (1.0)	266 (0.9)»
South Carolina[1]	5 (0.4)	241 (4.2)	20 (1.3)	258 (1.9)	75 (1.5)	262 (1.1)
Tennessee[1]	4 (0.4)	239 (4.0)	18 (1.3)	260 (2.2)	78 (1.3)	259 (1.4)
Texas	5 (0.5)«	239 (3.2)	24 (2.0)	266 (2.8)	71 (2.0)	265 (1.4)>
Utah[1]	5 (0.4)	255 (3.2)	17 (0.8)	272 (1.6)	78 (0.9)	276 (0.9)
Virginia	4 (0.5)«	245 (5.0)	20 (1.5)	267 (2.8)	77 (1.8)	268 (1.2)
West Virginia	3 (0.3)«	235 (4.2)	10 (0.8)<	260 (2.1)	87 (1.0)»	259 (1.0)
Wisconsin	6 (0.5)	258 (4.1)	20 (2.5)	278 (2.2)	75 (2.7)	279 (1.5)
Wyoming	6 (0.5)	258 (3.1)	15 (0.8)«	274 (1.8)	79 (1.0)»	276 (0.9)>
TERRITORIES						
Guam	9 (0.7)<	209 (3.9)	15 (0.9)	238 (2.7)	76 (1.0)	237 (1.1)»
Virgin Islands	12 (0.8)<	211 (2.0)	17 (1.0)»	225 (2.2)	71 (1.1)	223 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.
[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.59 | **Teachers' Reports on the Frequency with Which Students Do Work with Objects Like Rulers, Counting Blocks, or Geometric Shapes in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	46 (3.0)	218 (1.9)	44 (2.9)	216 (1.7)	10 (1.8)	219 (2.6)
Northeast	43 (7.0)	220 (5.3)	46 (6.2)	220 (3.7)	11 (5.2)	220 (5.4)!
Southeast	48 (4.9)	210 (4.1)	46 (5.2)	204 (2.5)	6 (2.1)	210 (5.2)!
Central	36 (6.7)	223 (2.5)	48 (7.0)	224 (3.1)	16 (4.4)	224 (4.7)!
West	55 (5.4)	219 (2.9)	38 (5.1)	215 (2.6)	7 (2.9)	217 (4.6)!
STATES						
Alabama	40 (4.3)	211 (2.7)	52 (4.5)	206 (1.7)	8 (2.3)	202 (3.4)!
Arizona	38 (3.2)	214 (1.9)	48 (3.1)	216 (1.4)	13 (2.0)	208 (2.8)
Arkansas	21 (2.8)	211 (3.1)	59 (3.4)	209 (1.1)	20 (2.8)	207 (2.1)
California	57 (4.0)	209 (2.2)	36 (3.7)	205 (2.6)	6 (1.8)	205 (6.6)!
Colorado	56 (3.2)	223 (1.5)	41 (3.4)	216 (1.8)	3 (1.2)	214 (7.1)!
Connecticut	62 (3.5)	230 (1.6)	33 (3.4)	226 (2.5)	5 (1.1)	207 (4.6)!
Delaware	28 (0.9)	219 (1.5)	57 (0.9)	216 (1.1)	15 (0.7)	217 (2.6)
Dist. Columbia	68 (1.0)	192 (0.8)	27 (1.0)	190 (1.4)	5 (0.2)	180 (4.6)
Florida	51 (3.3)	215 (1.6)	43 (3.3)	210 (1.8)	6 (1.3)	209 (8.0)!
Georgia	50 (3.6)	213 (2.1)	45 (3.5)	214 (2.1)	6 (1.4)	213 (7.1)!
Hawaii	40 (3.8)	213 (2.0)	48 (3.3)	214 (1.9)	11 (2.2)	210 (3.7)
Idaho	39 (3.8)	223 (1.8)	53 (3.8)	220 (1.3)	8 (1.7)	210 (2.5)!
Indiana	27 (3.4)	217 (2.6)	62 (3.4)	221 (1.2)	11 (2.0)	216 (2.9)
Iowa	41 (3.9)	229 (1.9)	53 (3.6)	229 (1.2)	6 (1.5)	230 (3.5)!
Kentucky	51 (3.8)	214 (1.7)	44 (3.7)	213 (1.1)	5 (1.4)	206 (4.1)!
Louisiana	44 (3.7)	204 (2.4)	44 (3.5)	202 (2.3)	12 (2.0)	200 (4.0)
Maine	53 (4.2)	231 (1.3)	43 (3.9)	231 (1.6)	4 (1.6)	225 (6.4)!
Maryland	62 (3.3)	219 (1.5)	37 (3.3)	218 (2.5)	2 (0.7)	*** (***)
Massachusetts	48 (4.0)	227 (2.0)	42 (3.9)	227 (1.9)	9 (2.3)	224 (4.0)!
Michigan	51 (3.8)	218 (2.5)	43 (3.6)	222 (2.4)	6 (1.7)	210 (5.6)!
Minnesota	42 (3.8)	228 (1.9)	50 (3.8)	227 (1.6)	8 (1.5)	221 (3.2)
Mississippi	38 (4.1)	200 (1.9)	49 (3.9)	202 (1.9)	13 (2.6)	195 (3.8)!
Missouri	33 (3.6)	222 (3.0)	57 (3.9)	222 (1.4)	10 (2.4)	219 (3.1)!
Nebraska	45 (3.9)	227 (2.1)	45 (3.9)	223 (1.8)	10 (2.4)	225 (2.4)!
New Hampshire	53 (3.1)	230 (1.5)	42 (3.2)	229 (1.8)	5 (2.0)	224 (2.9)!
New Jersey	42 (3.8)	229 (2.5)	51 (3.9)	227 (2.3)	6 (1.6)	214 (3.5)!
New Mexico	38 (3.7)	212 (1.7)	50 (3.6)	214 (1.7)	11 (2.4)	205 (3.4)!
New York	46 (3.5)	217 (2.1)	46 (3.1)	218 (1.9)	8 (1.7)	213 (3.6)!
North Carolina	43 (2.9)	214 (1.6)	48 (2.9)	210 (1.8)	10 (1.6)	214 (3.1)
North Dakota	19 (3.0)	230 (2.2)	68 (3.1)	227 (1.1)	13 (2.7)	228 (2.9)!
Ohio	38 (3.9)	217 (2.3)	52 (3.7)	219 (1.4)	10 (2.1)	211 (3.5)!
Oklahoma	23 (3.1)	221 (2.0)	59 (3.5)	220 (1.4)	17 (2.1)	217 (1.6)
Pennsylvania	33 (3.5)	223 (2.3)	53 (3.7)	224 (1.9)	14 (2.3)	220 (4.5)
Rhode Island	35 (3.2)	216 (2.9)	48 (3.7)	216 (2.2)	17 (2.5)	203 (3.2)
South Carolina	49 (3.1)	214 (1.6)	47 (3.2)	210 (1.5)	4 (1.0)	199 (3.8)!
Tennessee	28 (2.1)	209 (3.0)	54 (2.6)	209 (1.5)	17 (2.5)	212 (2.2)
Texas	55 (3.9)	217 (2.0)	40 (3.7)	219 (2.2)	4 (1.2)	209 (7.0)!
Utah	41 (3.2)	226 (1.4)	49 (3.5)	221 (1.5)	11 (2.2)	219 (2.6)!
Virginia	42 (3.3)	223 (2.3)	51 (2.8)	217 (1.7)	8 (1.3)	218 (3.1)
West Virginia	32 (3.1)	216 (2.1)	53 (3.8)	213 (1.5)	15 (2.7)	209 (2.1)
Wisconsin	45 (3.7)	227 (1.8)	50 (4.0)	229 (1.2)	5 (1.9)	225 (2.9)!
Wyoming	42 (3.6)	226 (1.5)	53 (3.6)	223 (1.2)	5 (1.1)	225 (3.8)!
TERRITORY						
Guam	40 (1.4)	192 (1.5)	53 (1.6)	192 (1.0)	7 (0.8)	182 (5.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.60 **Teachers' Reports on the Frequency with Which Students Do Work with Measuring Instruments or Geometric Solids**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	7 (1.1)	270 (3.7)	50 (3.3)	265 (1.5)	42 (3.3)	271 (2.1)
Northeast	8 (3.0)	266 (6.0)!	48 (8.3)	267 (4.6)	44 (7.8)	270 (5.9)
Southeast	8 (1.9)	265 (5.2)!	54 (6.1)	259 (2.3)	38 (5.4)	265 (3.5)
Central	4 (1.9)	*** (***)	50 (5.9)	272 (2.2)	46 (6.1)	279 (6.2)
West	8 (2.0)	276 (7.9)!	49 (6.2)	263 (2.0)	43 (7.0)	271 (3.0)
STATES						
Alabama	5 (1.7)	243 (7.5)!	65 (4.0)	249 (2.3)	30 (3.5)	260 (2.7)
Arizona	8 (2.3)	261 (2.6)!	41 (3.8)	263 (1.7)	51 (3.8)	266 (2.3)
Arkansas	6 (2.0)	250 (7.1)!	39 (3.6)	254 (2.1)	56 (3.6)	257 (1.9)
California	13 (2.3)	260 (5.4)	50 (2.7)	257 (2.3)	37 (2.7)	267 (2.5)
Colorado	9 (1.9)	272 (3.5)!	52 (3.3)	271 (1.4)	39 (3.3)	272 (1.9)
Connecticut	6 (1.3)	279 (3.8)!	56 (3.6)	270 (2.1)	38 (3.5)	277 (2.1)
Delaware	8 (0.7)	254 (3.1)	48 (1.0)	262 (1.2)	44 (0.9)	264 (1.3)
Dist. Columbia	13 (0.7)	251 (2.7)	53 (1.0)	228 (1.2)	34 (1.1)	238 (2.0)
Florida	5 (1.4)	264 (4.5)!	41 (2.8)	259 (1.7)	54 (3.0)	260 (2.4)
Georgia	8 (1.6)	258 (4.0)!	50 (3.1)	255 (1.9)	43 (3.3)	262 (1.9)
Hawaii	11 (0.7)	256 (2.5)	44 (1.0)	257 (1.2)	45 (0.9)	258 (1.5)
Idaho	12 (1.6)	274 (2.2)	38 (2.6)	275 (1.3)	49 (2.6)	274 (1.4)
Indiana	5 (1.3)	268 (5.4)!	56 (3.2)	267 (1.4)	40 (3.0)	274 (2.5)
Iowa	8 (2.4)	281 (3.6)!	53 (4.1)	279 (1.6)	40 (4.3)	288 (1.7)
Kentucky	6 (1.6)	264 (5.7)!	51 (3.3)	262 (1.7)	43 (3.4)	263 (2.1)
Louisiana	3 (1.1)	246 (8.7)!	32 (3.5)	250 (2.7)	64 (3.5)	250 (1.9)
Maine	13 (2.3)	278 (2.5)	50 (4.3)	277 (1.4)	37 (4.0)	281 (2.1)
Maryland	6 (1.4)	257 (7.1)!	48 (3.7)	262 (2.4)	46 (3.8)	271 (2.4)
Massachusetts	7 (1.9)	274 (3.5)!	39 (3.0)	271 (2.2)	54 (3.1)	273 (1.8)
Michigan	16 (2.8)	257 (5.5)	53 (3.4)	268 (2.3)	31 (3.6)	270 (3.6)
Minnesota	9 (1.7)	279 (5.6)!	48 (4.2)	281 (1.7)	43 (4.3)	283 (2.1)
Mississippi	10 (2.2)	244 (4.6)!	37 (3.4)	245 (2.1)	54 (3.7)	246 (1.8)
Missouri	8 (2.0)	267 (3.4)!	52 (3.7)	268 (1.5)	40 (3.4)	276 (1.9)
Nebraska	7 (2.4)	277 (6.5)!	54 (3.7)	276 (1.6)	39 (3.7)	280 (1.7)
New Hampshire	9 (2.1)	278 (3.6)!	47 (3.3)	276 (1.3)	44 (2.9)	279 (1.8)
New Jersey	10 (2.0)	252 (6.3)!	52 (4.1)	272 (2.2)	38 (4.0)	275 (3.0)
New Mexico	5 (1.2)	257 (4.0)!	46 (3.8)	259 (1.1)	49 (3.7)	260 (1.6)
New York	7 (2.2)	253 (8.5)!	45 (3.7)	266 (3.0)	48 (3.8)	266 (3.3)
North Carolina	5 (1.4)	255 (5.7)!	50 (3.2)	255 (1.9)	45 (3.3)	260 (1.9)
North Dakota	10 (1.9)	281 (2.4)	59 (4.4)	283 (1.6)	32 (4.1)	284 (1.9)
Ohio	5 (1.8)	265 (5.6)!	53 (4.0)	267 (2.6)	41 (3.7)	273 (2.7)
Oklahoma	7 (2.2)	265 (4.2)!	44 (3.5)	267 (1.8)	49 (3.5)	268 (1.9)
Pennsylvania	6 (1.7)	267 (3.6)!	44 (3.5)	263 (1.9)	50 (3.8)	277 (2.4)
Rhode Island	9 (0.7)	262 (2.9)	38 (1.3)	263 (1.3)	53 (1.4)	267 (0.9)
South Carolina	8 (1.3)	251 (5.4)	64 (3.3)	256 (1.4)	28 (3.2)	273 (3.4)
Tennessee	9 (2.1)	259 (3.6)!	49 (3.4)	255 (1.8)	41 (3.3)	261 (2.5)
Texas	8 (1.5)	254 (4.4)	54 (3.2)	262 (2.0)	38 (3.2)	271 (2.1)
Utah	4 (0.8)	271 (4.9)	34 (3.1)	273 (1.5)	61 (3.2)	274 (1.1)
Virginia	3 (0.9)	268 (8.6)!	36 (2.9)	264 (2.2)	60 (2.8)	270 (1.4)
West Virginia	3 (0.9)	259 (6.1)!	49 (3.6)	256 (1.4)	48 (3.6)	262 (1.7)
Wisconsin	10 (2.9)	277 (2.7)!	63 (4.6)	278 (2.4)	28 (3.5)	278 (2.3)
Wyoming	8 (1.5)	263 (3.5)	52 (2.4)	273 (1.1)	40 (2.4)	280 (1.5)
TERRITORIES						
Guam	1 (0.3)	*** (***)	47 (1.4)	234 (1.6)	52 (1.3)	236 (1.3)
Virgin Islands	0 (0.0)	*** (***)	36 (0.8)	214 (1.2)	64 (0.8)	225 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.61 | **Students' Reports on the Frequency with Which They Do Work with Objects Like Rulers, Counting Blocks, or Geometric Shapes in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	35 (1.3)	215 (1.4)	24 (0.9)	226 (1.1)	41 (1.3)	214 (1.1)
Northeast	36 (2.7)	222 (3.7)	26 (2.3)	229 (2.6)	38 (2.0)	220 (2.5)
Southeast	40 (2.9)	209 (2.7)	19 (1.2)	218 (2.4)	41 (3.7)	205 (2.1)
Central	26 (2.0)	219 (3.0)	26 (2.1)	229 (2.2)	47 (2.0)	220 (2.9)
West	38 (2.6)	215 (2.5)	24 (1.8)	226 (2.1)	38 (2.5)	214 (1.8)
STATES						
Alabama	28 (1.7)	200 (1.9)	21 (1.2)	216 (2.3)	51 (2.2)	208 (1.7)
Arizona	29 (1.4)	208 (1.6)	23 (0.9)	221 (1.7)	48 (1.5)	214 (1.4)
Arkansas	30 (1.8)	205 (1.9)	19 (0.9)	218 (1.7)	51 (1.8)	208 (1.1)
California	40 (1.6)	203 (2.3)	23 (1.3)	214 (2.3)	37 (1.9)	209 (1.6)
Colorado	37 (1.5)	216 (1.5)	28 (1.0)	227 (1.4)	35 (1.7)	218 (1.4)
Connecticut	40 (1.9)	223 (1.5)	27 (1.3)	235 (1.4)	33 (1.4)	222 (1.6)
Delaware	29 (1.3)	210 (1.3)	21 (0.9)	229 (1.7)	50 (1.5)	215 (1.4)
Dist. Columbia	52 (1.1)	192 (0.9)	18 (0.9)	202 (1.8)	30 (1.0)	186 (1.6)
Florida	36 (2.4)	211 (2.2)	21 (1.1)	221 (2.2)	43 (2.4)	210 (1.6)
Georgia	35 (1.8)	208 (1.9)	24 (1.0)	224 (2.2)	42 (2.0)	214 (1.4)
Hawaii	46 (1.8)	211 (1.8)	21 (0.9)	220 (2.0)	33 (1.5)	212 (1.6)
Idaho	33 (2.0)	218 (1.5)	27 (1.1)	227 (1.3)	40 (1.8)	218 (1.2)
Indiana	31 (1.8)	216 (1.5)	24 (0.9)	226 (1.2)	44 (1.8)	219 (1.5)
Iowa	30 (1.6)	226 (1.7)	31 (1.3)	236 (1.2)	39 (1.9)	227 (1.3)
Kentucky	39 (1.7)	211 (1.6)	25 (1.1)	220 (1.6)	37 (1.8)	213 (1.3)
Louisiana	36 (1.4)	199 (1.8)	19 (1.0)	211 (2.1)	45 (1.5)	204 (1.6)
Maine	35 (2.1)	228 (1.4)	35 (1.4)	237 (1.4)	29 (1.7)	228 (1.7)
Maryland	35 (1.8)	213 (1.9)	26 (1.1)	228 (1.7)	39 (1.8)	212 (1.7)
Massachusetts	42 (1.7)	224 (1.7)	24 (1.3)	233 (1.6)	34 (2.0)	223 (1.7)
Michigan	36 (1.6)	215 (2.4)	26 (1.1)	227 (1.8)	38 (1.6)	217 (2.1)
Minnesota	33 (2.0)	225 (1.6)	28 (1.1)	233 (1.2)	39 (2.0)	226 (1.3)
Mississippi	38 (1.8)	197 (1.7)	16 (1.0)	210 (2.2)	46 (1.8)	200 (1.2)
Missouri	30 (1.3)	217 (1.8)	26 (1.3)	228 (1.5)	44 (2.0)	220 (1.5)
Nebraska	32 (2.1)	224 (2.0)	28 (1.5)	230 (1.8)	40 (1.9)	221 (1.4)
New Hampshire	36 (2.0)	229 (1.6)	24 (1.0)	233 (1.7)	40 (2.0)	226 (1.3)
New Jersey	36 (1.9)	224 (2.2)	27 (1.3)	232 (1.9)	37 (2.2)	224 (2.1)
New Mexico	30 (1.9)	208 (2.5)	19 (0.9)	220 (2.5)	51 (2.2)	212 (1.2)
New York	38 (1.9)	213 (1.8)	24 (1.1)	226 (2.0)	38 (1.7)	216 (1.6)
North Carolina	36 (1.5)	209 (1.7)	23 (0.9)	222 (1.5)	41 (1.7)	208 (1.4)
North Dakota	24 (1.6)	223 (1.8)	28 (1.0)	233 (1.3)	48 (1.6)	227 (1.0)
Ohio	30 (1.5)	215 (1.7)	24 (1.2)	226 (1.8)	46 (2.1)	215 (1.4)
Oklahoma	26 (1.5)	215 (1.6)	23 (1.2)	226 (1.6)	51 (2.0)	218 (1.2)
Pennsylvania	34 (1.9)	220 (1.7)	29 (1.3)	230 (1.6)	36 (1.8)	222 (1.8)
Rhode Island	32 (1.7)	212 (2.7)	21 (1.0)	222 (1.8)	47 (1.8)	212 (1.9)
South Carolina	39 (1.6)	207 (1.4)	21 (1.1)	222 (1.4)	40 (1.5)	209 (1.3)
Tennessee	29 (1.3)	204 (2.1)	20 (1.0)	219 (2.1)	51 (1.8)	209 (1.4)
Texas	40 (1.8)	213 (1.7)	24 (1.2)	226 (1.8)	36 (2.0)	216 (1.8)
Utah	33 (1.5)	219 (1.5)	28 (1.0)	230 (1.4)	39 (1.8)	221 (1.2)
Virginia	32 (2.0)	216 (2.0)	25 (1.3)	230 (1.9)	44 (1.9)	217 (1.4)
West Virginia	34 (1.6)	212 (1.5)	25 (1.1)	221 (1.6)	40 (1.7)	211 (1.2)
Wisconsin	32 (1.8)	225 (1.8)	30 (1.0)	235 (1.2)	37 (1.6)	225 (1.3)
Wyoming	29 (1.6)	223 (1.5)	26 (1.2)	229 (1.2)	45 (1.8)	222 (1.2)
TERRITORY						
Guam	40 (1.3)	187 (1.3)	17 (0.9)	199 (1.8)	43 (1.3)	192 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.62 | **Students' Reports on the Frequency with Which They Do Work with Measuring Instruments or Geometric Solids**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	20 (1.2)	263 (1.7)	27 (1.1)	272 (1.4)	52 (1.6)	265 (1.1)
Northeast	21 (2.7)	263 (4.3)	27 (1.8)	270 (4.9)	52 (3.2)	269 (2.8)
Southeast	19 (1.6)	255 (2.5)	24 (3.1)	266 (1.9)	57 (3.7)	256 (2.1)
Central	19 (2.9)	271 (2.7)	29 (2.0)	278 (3.1)	52 (3.6)	271 (1.9)
West	21 (2.6)	264 (3.2)	30 (1.3)	272 (2.1)	49 (2.6)	265 (2.5)
STATES						
Alabama	18 (1.5)	243 (3.4)	24 (1.2)	254 (2.4)	59 (1.9)	253 (1.6)
Arizona	18 (1.2)	263 (2.5)	22 (1.0)	266 (1.7)	60 (1.5)	265 (1.5)
Arkansas	17 (1.4)	250 (2.4)	26 (1.1)	259 (2.2)	57 (1.7)	255 (1.3)
California	25 (1.4)	255 (2.8)	28 (1.1)	267 (2.3)	48 (1.9)	260 (1.9)
Colorado	20 (1.3)	273 (2.0)	28 (1.1)	276 (1.4)	52 (1.5)	269 (1.3)
Connecticut	19 (1.2)	271 (2.4)	27 (0.9)	277 (1.9)	54 (1.5)	272 (1.5)
Delaware	18 (0.8)	258 (1.9)	26 (0.9)	262 (1.7)	56 (1.2)	264 (1.3)
Dist. Columbia	21 (1.2)	230 (2.0)	21 (1.3)	242 (2.7)	58 (1.3)	233 (1.3)
Florida	19 (1.2)	251 (2.3)	21 (1.2)	262 (2.2)	60 (1.8)	261 (1.8)
Georgia	19 (1.2)	249 (1.8)	25 (1.1)	261 (1.8)	56 (1.6)	261 (1.4)
Hawaii	26 (0.9)	255 (1.6)	23 (0.8)	259 (1.6)	51 (1.0)	257 (1.1)
Idaho	23 (1.4)	275 (1.6)	25 (1.0)	277 (1.1)	53 (1.7)	273 (1.0)
Indiana	19 (1.4)	268 (2.3)	29 (1.2)	271 (1.5)	52 (1.6)	269 (1.5)
Iowa	23 (1.9)	281 (1.6)	31 (1.2)	286 (1.3)	46 (2.1)	281 (1.3)
Kentucky	19 (1.7)	258 (2.1)	27 (1.1)	263 (1.6)	55 (1.8)	261 (1.3)
Louisiana	13 (1.2)	241 (2.8)	21 (1.2)	255 (2.4)	66 (1.8)	249 (1.8)
Maine	21 (1.6)	276 (1.8)	29 (1.3)	280 (1.5)	50 (1.8)	278 (1.4)
Maryland	16 (1.0)	258 (2.6)	27 (1.1)	270 (1.8)	57 (1.5)	264 (1.7)
Massachusetts	16 (1.6)	270 (2.9)	22 (1.0)	275 (1.9)	62 (2.3)	272 (1.5)
Michigan	24 (1.9)	263 (2.5)	30 (1.2)	271 (1.8)	47 (2.4)	266 (1.9)
Minnesota	25 (1.6)	280 (1.9)	32 (1.4)	283 (1.4)	43 (2.1)	282 (1.5)
Mississippi	18 (1.6)	238 (2.2)	19 (1.1)	249 (1.7)	62 (1.8)	247 (1.5)
Missouri	23 (1.6)	269 (1.6)	31 (1.1)	273 (1.6)	46 (1.9)	270 (1.6)
Nebraska	21 (1.9)	276 (1.9)	34 (1.4)	281 (1.6)	45 (2.2)	275 (1.3)
New Hampshire	16 (1.3)	278 (1.7)	28 (1.3)	280 (1.3)	55 (1.6)	276 (1.2)
New Jersey	26 (1.7)	265 (2.8)	28 (1.4)	279 (1.8)	46 (2.1)	270 (2.2)
New Mexico	16 (0.8)	254 (2.2)	26 (1.0)	264 (1.2)	58 (1.3)	258 (1.1)
New York	22 (1.7)	260 (3.4)	28 (1.3)	270 (2.4)	51 (1.9)	266 (2.5)
North Carolina	16 (1.1)	250 (2.5)	28 (1.1)	263 (1.5)	56 (1.2)	258 (1.4)
North Dakota	22 (1.6)	285 (1.9)	31 (1.6)	283 (1.3)	47 (1.9)	282 (1.5)
Ohio	19 (1.3)	266 (2.3)	28 (1.1)	271 (2.0)	53 (1.7)	266 (1.8)
Oklahoma	15 (1.2)	262 (2.6)	23 (1.5)	272 (1.8)	62 (1.8)	267 (1.2)
Pennsylvania	16 (1.3)	265 (2.5)	24 (1.1)	273 (2.0)	60 (1.6)	271 (1.6)
Rhode Island	18 (1.0)	262 (1.8)	23 (0.8)	270 (1.5)	59 (1.2)	264 (1.0)
South Carolina	25 (1.4)	251 (1.6)	28 (1.0)	260 (1.5)	48 (1.8)	265 (1.4)
Tennessee	20 (1.8)	255 (2.0)	26 (1.4)	265 (1.7)	54 (1.9)	256 (1.8)
Texas	19 (1.4)	259 (2.3)	30 (1.2)	267 (2.0)	50 (1.6)	264 (1.5)
Utah	16 (1.0)	271 (1.7)	22 (0.9)	275 (1.4)	62 (1.4)	274 (0.9)
Virginia	15 (1.1)	263 (2.8)	23 (1.0)	273 (1.6)	63 (1.5)	266 (1.3)
West Virginia	16 (1.4)	254 (1.9)	24 (1.1)	261 (1.5)	60 (1.7)	258 (1.2)
Wisconsin	25 (1.5)	278 (2.9)	33 (1.0)	280 (1.6)	42 (1.5)	276 (1.7)
Wyoming	21 (1.5)	273 (1.9)	31 (0.9)	275 (1.4)	48 (1.4)	275 (1.1)
TERRITORIES						
Guam	22 (1.0)	224 (2.8)	19 (1.1)	244 (2.4)	59 (1.0)	236 (1.3)
Virgin Islands	17 (0.9)	215 (2.0)	14 (1.0)	227 (2.2)	68 (0.8)	223 (1.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.63 | **Teachers' Reports on "How Well Supplied Are You by Your School System with the Instructional Materials and Other Resources You Need to Teach Your Class?"**

PUBLIC SCHOOLS	Grade 4 - 1992					
	I get some or none of the resources I need.		I get most of the resources I need.		I get all the resources I need.	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	37 (3.5)	213 (2.0)	52 (3.0)	220 (1.3)	11 (1.7)	221 (2.8)
Northeast	44 (6.1)	215 (4.3)	45 (5.4)	228 (3.3)	11 (3.3)	233 (3.9)!
Southeast	41 (5.3)	206 (2.8)	46 (5.0)	210 (2.8)	13 (2.8)	206 (3.0)!
Central	35(10.6)	221 (4.2)!	54 (7.8)	225 (2.2)	11 (4.6)	226 (6.4)!
West	32 (4.7)	211 (3.3)	58 (4.8)	219 (2.2)	10 (2.3)	225 (4.5)!
STATES						
Alabama	53 (3.3)	206 (2.0)	39 (3.2)	210 (2.4)	8 (1.9)	208 (4.7)!
Arizona	48 (3.6)	212 (1.5)	43 (3.2)	216 (1.8)	10 (1.7)	218 (3.8)
Arkansas	43 (4.4)	207 (2.0)	48 (4.4)	211 (1.3)	9 (1.5)	210 (2.7)
California	46 (3.3)	202 (2.2)	49 (3.3)	211 (2.6)	5 (1.2)	210 (5.5)!
Colorado	34 (3.2)	217 (1.8)	55 (2.9)	220 (1.6)	11 (2.1)	225 (4.3)
Connecticut	31 (3.1)	219 (2.3)	59 (3.2)	231 (1.5)	10 (1.8)	227 (3.6)
Delaware	51 (0.8)	216 (1.1)	42 (0.9)	218 (1.2)	7 (0.4)	220 (3.2)
Dist. Columbia	77 (0.7)	187 (0.8)	21 (0.7)	203 (2.0)	2 (0.1)	*** (***)
Florida	34 (3.0)	209 (2.7)	54 (2.9)	215 (1.7)	12 (1.9)	213 (3.1)
Georgia	36 (3.8)	211 (2.0)	54 (3.8)	215 (1.9)	10 (1.7)	214 (3.7)
Hawaii	53 (3.3)	213 (1.7)	43 (3.1)	213 (1.8)	5 (1.1)	209 (4.5)!
Idaho	36 (2.9)	219 (1.6)	57 (2.6)	221 (1.2)	7 (1.7)	222 (2.2)!
Indiana	36 (3.9)	219 (1.8)	53 (3.5)	218 (1.4)	11 (2.4)	223 (2.6)!
Iowa	23 (3.3)	225 (2.1)	62 (3.7)	230 (1.3)	15 (2.9)	232 (2.5)!
Kentucky	36 (3.6)	210 (1.6)	56 (3.9)	216 (1.5)	9 (2.1)	211 (3.2)!
Louisiana	53 (3.5)	199 (2.1)	41 (3.3)	208 (2.0)	6 (1.6)	208 (6.7)!
Maine	41 (3.9)	228 (1.4)	52 (3.9)	233 (1.6)	7 (1.8)	231 (3.7)!
Maryland	47 (3.3)	211 (2.4)	46 (3.0)	220 (2.2)	7 (1.5)	228 (3.2)!
Massachusetts	47 (3.7)	220 (1.8)	47 (3.5)	231 (1.7)	6 (1.8)	219 (7.6)!
Michigan	48 (3.7)	217 (2.5)	45 (3.6)	222 (2.5)	7 (1.9)	224 (5.7)!
Minnesota	31 (3.1)	225 (2.1)	58 (3.2)	227 (1.2)	10 (2.2)	234 (3.0)!
Mississippi	52 (3.9)	198 (1.9)	42 (3.7)	202 (2.0)	6 (2.0)	205 (3.3)!
Missouri	33 (4.1)	217 (2.5)	56 (3.9)	222 (1.3)	11 (2.2)	228 (4.0)
Nebraska	17 (2.5)	223 (2.6)	67 (3.2)	224 (1.6)	15 (2.5)	226 (2.3)
New Hampshire	47 (3.8)	226 (1.8)	48 (3.5)	232 (1.5)	4 (1.3)	229 (5.8)!
New Jersey	38 (3.4)	219 (3.0)	47 (3.7)	231 (1.5)	15 (3.0)	230 (3.9)!
New Mexico	48 (3.5)	210 (2.3)	47 (3.5)	213 (1.7)	5 (1.3)	216 (3.8)!
New York	40 (2.9)	210 (2.6)	49 (3.4)	222 (1.9)	11 (2.3)	219 (3.1)!
North Carolina	52 (3.3)	211 (1.3)	44 (3.1)	213 (1.8)	4 (1.2)	218 (3.9)!
North Dakota	42 (4.2)	226 (1.5)	50 (4.1)	229 (1.1)	8 (2.4)	228 (2.3)!
Ohio	50 (4.2)	213 (1.8)	46 (4.1)	221 (1.5)	5 (1.7)	226 (5.7)!
Oklahoma	39 (3.9)	219 (1.6)	54 (3.9)	220 (1.3)	7 (1.7)	217 (3.4)!
Pennsylvania	33 (3.6)	215 (2.5)	56 (3.5)	227 (1.7)	10 (2.1)	233 (4.1)
Rhode Island	57 (3.5)	212 (2.3)	41 (3.4)	217 (1.9)	2 (1.0)	*** (***)
South Carolina	37 (3.3)	208 (2.2)	54 (3.3)	213 (1.5)	9 (1.7)	214 (4.8)
Tennessee	50 (4.0)	207 (1.9)	43 (3.7)	212 (1.8)	7 (2.0)	213 (5.1)!
Texas	32 (3.0)	214 (2.2)	54 (3.3)	218 (2.0)	14 (2.1)	220 (2.1)
Utah	53 (3.6)	221 (1.5)	41 (3.5)	225 (1.4)	6 (1.4)	220 (3.8)!
Virginia	35 (3.6)	213 (1.9)	54 (3.6)	222 (1.8)	11 (1.8)	225 (3.3)
West Virginia	38 (2.7)	212 (1.4)	51 (3.0)	215 (1.7)	11 (1.8)	213 (3.1)
Wisconsin	30 (3.2)	226 (2.2)	60 (2.8)	229 (1.4)	10 (2.0)	228 (2.9)!
Wyoming	18 (2.5)	227 (1.9)	66 (3.1)	224 (1.2)	16 (2.3)	226 (1.6)
TERRITORY						
Guam	63 (1.0)	189 (1.0)	32 (1.0)	195 (1.8)	4 (0.8)	204 (4.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.63 **Teachers' Reports on "How Well Supplied Are You by Your School System with the Instructional Materials and Other Resources You Need to Teach Your Class?" (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	I get some or none of the resources I need.		I get most of the resources I need.		I get all the resources I need.	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	33 (1.9)	261 (1.5)	53 (2.5)	269 (1.1)	13 (2.3)	272 (3.4)
Northeast	37 (4.6)	250 (3.3)	51 (5.1)	277 (3.4)	12 (4.6)	274 (5.9)!
Southeast	35 (3.6)	260 (1.9)	50 (5.5)	260 (1.6)	15 (7.0)	265 (6.0)!
Central	26 (3.9)	272 (4.6)	60 (5.7)	274 (2.2)	13 (3.3)	282 (6.1)!
West	35 (3.4)	263 (2.7)	52 (4.1)	268 (2.4)	12 (2.7)	270 (5.1)!
STATES						
Alabama	37 (4.1)	246 (2.6)	54 (4.5)	255 (2.2)	10 (2.0)	254 (5.9)!
Arizona	41 (3.6) >	265 (1.8)	43 (3.7)	264 (1.6)	15 (3.1)	265 (4.2)!
Arkansas	28 (3.3) <	254 (2.5)	56 (3.9) >	256 (1.8)	16 (3.3)	256 (4.0)!
California	32 (2.8)	256 (2.5)	56 (3.0)	264 (2.2)	12 (2.0)	262 (4.4)
Colorado	36 (3.3) >	269 (1.8)	51 (3.0)	274 (1.5) >	13 (2.1)	271 (4.4)
Connecticut	30 (3.7)	264 (3.2)	50 (3.9)	274 (2.3)	20 (3.3)	283 (2.3) >
Delaware	46 (0.8) »	264 (1.3) >	47 (0.8) «	260 (1.5)	7 (0.5)	261 (3.0)
Dist. Columbia	59 (1.0)	233 (1.3)	35 (1.0)	237 (1.4)	6 (0.4) »	230 (4.6)
Florida	37 (3.2)	254 (3.0)	50 (3.3)	262 (1.7)	13 (2.3)	263 (3.9)
Georgia	32 (3.4)	254 (2.4)	53 (3.5)	262 (1.6)	15 (2.4)	259 (3.6)
Hawaii	47 (0.9)	256 (1.3) »	47 (0.9) «	258 (1.2)	7 (0.4) >	256 (2.9)
Idaho	42 (3.3)	273 (1.1)	49 (3.5)	275 (1.4)	9 (2.3)	277 (3.4)!
Indiana	31 (4.2)	265 (2.0)	55 (4.2)	272 (1.7)	13 (2.6)	268 (3.5)
Iowa	22 (2.9)	280 (1.8)	60 (4.5)	283 (1.2) >	18 (3.5)	286 (2.7) >
Kentucky	35 (4.4)	259 (1.7)	51 (3.7)	265 (1.8) >	14 (3.0)	260 (3.4)!
Louisiana	49 (4.6)	246 (2.4)	43 (4.4)	252 (2.6)	8 (2.4)	253 (5.5)!
Maine[1]	28 (4.1)	273 (1.7)	57 (4.5)	280 (1.4)	15 (3.0)	279 (3.1)
Maryland	34 (3.6) >	256 (3.1)	54 (4.0)	270 (2.1)	11 (2.6)	270 (5.7)!
Massachusetts[1]	42 (2.6)	265 (2.2)	50 (3.2)	279 (1.5)	9 (2.0)	271 (3.1)!
Michigan	31 (3.9)	263 (3.1)	56 (3.8)	268 (2.2)	13 (2.4)	271 (5.1)
Minnesota	29 (3.3)	279 (2.0)	58 (4.1)	284 (1.2) »	13 (2.9)	280 (3.1)!
Mississippi[1]	57 (4.0)	244 (1.5)	34 (3.5)	248 (2.3)	9 (2.3)	244 (4.6)!
Missouri[1]	26 (3.8)	268 (2.0)	60 (3.7)	271 (1.3)	14 (2.6)	274 (3.0)
Nebraska	23 (3.1)	273 (1.9)	61 (3.7)	279 (1.5)	16 (2.6)	275 (2.9)
New Hampshire	36 (3.7) >	275 (1.4) >	53 (3.5)	279 (1.3) >	11 (2.4)	279 (3.3)!
New Jersey	31 (3.6)	261 (3.8)	46 (4.1)	273 (2.4)	23 (4.1)	280 (3.7)
New Mexico	41 (3.6)	254 (1.5)	51 (3.9)	263 (1.3) »	9 (1.6)	258 (2.3)
New York	31 (3.7)	256 (3.3)	48 (3.9)	266 (3.1)	20 (3.3)	280 (3.2) >
North Carolina	46 (3.4)	255 (1.7) »	43 (3.0)	260 (1.7) >	11 (2.5)	257 (2.3)!
North Dakota	25 (3.2)	285 (2.1)	50 (4.6)	282 (1.4)	25 (3.4)	281 (2.2)
Ohio	51 (4.9) >	266 (2.0)	42 (4.0)	272 (2.4)	7 (1.9)	260 (8.0)!
Oklahoma	37 (3.9)	266 (2.0)	46 (3.9)	270 (2.1)	17 (2.6)	264 (3.3)
Pennsylvania	29 (3.4)	263 (3.2)	51 (3.5)	274 (2.0) >	20 (2.8)	272 (2.8)
Rhode Island	42 (0.9) »	253 (1.5)	51 (0.7)	273 (1.1) »	6 (0.6) «	269 (2.6)
South Carolina[1]	32 (3.3)	259 (2.3)	52 (3.5)	261 (1.7)	16 (2.3)	259 (3.4)
Tennessee[1]	42 (3.8)	259 (2.1)	46 (3.4)	258 (1.9)	12 (2.2)	255 (4.3)
Texas	29 (2.8)	258 (2.7)	49 (3.2)	265 (2.4)	22 (2.7)	268 (2.5) >
Utah[1]	38 (2.8)	274 (1.3)	53 (2.5)	274 (1.3)	10 (1.5)	271 (2.5)
Virginia	33 (3.5)	263 (2.4) >	51 (3.4)	270 (1.4)	16 (2.6)	266 (3.4)
West Virginia	38 (4.3)	259 (1.6)	53 (4.4)	258 (1.2)	9 (2.2)	257 (2.6)!
Wisconsin	19 (2.9)	275 (3.1)	69 (3.7)	280 (1.9)	12 (2.5)	272 (3.8)
Wyoming	20 (1.7)	272 (1.6)	66 (3.0) »	276 (1.0)	14 (2.4) «	271 (3.4)
TERRITORIES						
Guam	69 (1.1)	233 (1.3) >	27 (1.1) »	233 (2.6)	3 (0.4) «	*** (***)
Virgin Islands	82 (0.5) »	216 (1.1)	18 (0.5) «	241 (2.4) »	0 (0.0)	*** (***)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

TABLE A.64 | **Teachers' Reports on How Often They Use Multiple-Choice Mathematics Tests to Assess Student Progress in Mathematics**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Once or Twice a Week		Once or Twice a Month		Yearly or Never	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	6 (1.0)	204 (3.6)	44 (3.1)	218 (1.6)	50 (2.9)	217 (1.5)
Northeast	8 (2.4)	205 (6.9)!	45 (7.3)	222 (4.1)!	47 (6.3)	221 (4.0)
Southeast	11 (2.6)	199 (3.7)!	49 (5.4)	206 (1.9)	40 (4.8)	212 (4.1)
Central	2 (1.5)	*** (***)	43 (7.6)	225 (2.6)	54 (7.4)	222 (2.3)
West	3 (1.2)	196 (4.5)!	36 (4.2)	224 (3.3)	60 (4.5)	215 (2.4)
STATES						
Alabama	17 (2.7)	206 (2.3)	63 (3.2)	209 (1.7)	20 (2.8)	203 (3.7)
Arizona	5 (1.2)	207 (4.4)!	42 (2.9)	216 (1.5)	53 (3.2)	214 (1.5)
Arkansas	8 (1.8)	200 (4.0)!	65 (3.8)	210 (1.1)	27 (3.7)	211 (2.9)
California	5 (1.5)	196 (6.9)!	43 (3.7)	207 (2.6)	52 (3.9)	209 (2.1)
Colorado	2 (0.8)	*** (***)	37 (3.2)	220 (1.7)	61 (3.4)	221 (1.6)
Connecticut	2 (0.7)	*** (***)	43 (3.8)	229 (2.0)	55 (4.0)	227 (1.9)
Delaware	5 (0.5)	221 (4.4)	39 (1.3)	217 (1.5)	56 (1.0)	217 (1.3)
Dist. Columbia	29 (0.8)	187 (1.7)	45 (1.0)	192 (1.1)	26 (0.9)	194 (1.7)
Florida	10 (1.9)	205 (4.2)	54 (3.7)	213 (1.3)	36 (3.8)	213 (2.3)
Georgia	10 (1.8)	202 (4.4)	57 (3.5)	214 (1.9)	33 (3.4)	217 (2.3)
Hawaii	5 (1.1)	211 (3.6)!	55 (3.2)	214 (2.0)	40 (3.0)	212 (2.0)
Idaho	2 (0.8)	*** (***)	47 (3.8)	222 (1.1)	51 (3.9)	219 (1.3)
Indiana	5 (1.1)	221 (2.2)!	45 (4.1)	218 (1.6)	50 (4.1)	220 (1.5)
Iowa	3 (1.3)	222 (6.1)!	54 (3.9)	230 (1.2)	43 (3.8)	228 (1.6)
Kentucky	10 (1.9)	214 (3.6)	56 (3.3)	215 (1.3)	34 (3.8)	212 (2.0)
Louisiana	16 (3.1)	196 (4.8)	56 (3.9)	205 (2.0)	28 (3.7)	201 (2.9)
Maine	2 (0.9)	*** (***)	39 (4.0)	231 (1.8)	59 (3.9)	231 (1.4)
Maryland	8 (1.7)	198 (4.9)!	49 (3.5)	220 (2.4)	44 (3.9)	219 (1.8)
Massachusetts	4 (1.4)	206 (7.4)!	37 (3.9)	226 (1.6)	58 (3.7)	228 (1.7)
Michigan	4 (1.6)	199 (9.5)!	42 (4.5)	218 (2.7)	54 (4.6)	221 (2.2)
Minnesota	3 (1.6)	227 (5.6)!	56 (3.7)	228 (1.3)	41 (3.9)	225 (1.9)
Mississippi	18 (3.3)	191 (3.4)	52 (3.9)	202 (1.7)	30 (3.6)	200 (2.3)
Missouri	5 (1.2)	206 (8.1)!	62 (3.3)	222 (1.7)	33 (3.3)	224 (1.5)
Nebraska	1 (0.6)	*** (***)	42 (3.4)	224 (2.0)	57 (3.4)	225 (1.8)
New Hampshire	1 (0.5)	*** (***)	38 (3.8)	229 (1.7)	61 (3.8)	230 (1.5)
New Jersey	10 (2.0)	218 (4.8)!	57 (3.8)	226 (2.0)	33 (3.9)	231 (2.5)
New Mexico	5 (1.4)	207 (4.7)!	44 (4.5)	211 (1.9)	51 (4.4)	213 (1.9)
New York	14 (2.3)	203 (3.7)	53 (3.8)	218 (1.8)	33 (3.4)	222 (2.0)
North Carolina	9 (1.7)	212 (3.8)	51 (3.6)	212 (1.4)	40 (3.5)	212 (1.8)
North Dakota	2 (1.3)	*** (***)	44 (4.2)	226 (1.4)	54 (4.2)	229 (1.1)
Ohio	5 (1.3)	221 (5.4)!	52 (4.1)	218 (1.7)	43 (4.4)	216 (1.9)
Oklahoma	5 (1.1)	216 (2.8)!	63 (3.4)	220 (1.1)	32 (3.4)	218 (2.1)
Pennsylvania	4 (1.3)	214 (5.6)!	51 (3.7)	226 (1.8)	44 (3.8)	221 (2.6)
Rhode Island	2 (0.8)	*** (***)	42 (3.9)	211 (2.5)	57 (3.8)	216 (2.0)
South Carolina	7 (1.3)	212 (3.5)	53 (3.2)	211 (1.7)	39 (3.3)	212 (1.7)
Tennessee	13 (1.8)	197 (2.5)	53 (3.3)	210 (1.6)	34 (3.4)	214 (2.2)
Texas	11 (2.0)	210 (4.0)	60 (3.3)	219 (1.8)	29 (3.2)	218 (2.3)
Utah	5 (1.4)	220 (4.4)!	57 (3.5)	222 (1.1)	38 (3.5)	225 (1.5)
Virginia	6 (1.4)	206 (3.4)!	52 (3.0)	222 (1.9)	42 (3.0)	218 (1.9)
West Virginia	5 (1.5)	213 (4.4)!	56 (3.8)	214 (1.4)	39 (3.6)	213 (1.8)
Wisconsin	1 (0.5)	*** (***)	60 (3.1)	226 (1.5)	39 (3.1)	231 (1.6)
Wyoming	2 (0.9)	*** (***)	45 (3.6)	225 (1.5)	53 (3.7)	225 (1.1)
TERRITORY						
Guam	23 (1.2)	189 (1.9)	35 (1.3)	192 (1.4)	42 (1.3)	193 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.64 | **Teachers' Reports on How Often They Use Multiple-Choice Mathematics Tests to Assess Student Progress in Mathematics (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Once or Twice a Week		Once or Twice a Month		Yearly or Never	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	4 (1.1)	263 (9.2)!	30 (2.7)	262 (2.1)	66 (3.0)	271 (1.3)
Northeast	3 (1.9)	*** (***)	24 (5.8)	266 (8.4)!	73 (6.5)	269 (2.7)
Southeast	3 (2.1)	*** (***)	44 (4.1)	259 (2.3)	53 (5.4)	265 (2.2)
Central	4 (2.8)	*** (***)	24 (5.1)	270 (4.6)!	72 (6.2)	275 (2.5)
West	5 (1.7)	249 (6.3)!	26 (5.9)	259 (2.9)!	69 (5.7)	272 (3.1)
STATES						
Alabama	5 (1.7)	242 (7.2)!	44 (4.4)	250 (2.8)	51 (4.4)	254 (2.0)
Arizona	3 (1.2)	257 (5.0)!	19 (2.9)	261 (2.6)	78 (3.2)	266 (1.6)
Arkansas	6 (1.8)	249 (7.4)!	33 (3.5)	256 (2.7)	61 (3.4)	256 (1.4)
California	2 (0.7)	*** (***)	29 (2.7)	256 (2.4)	69 (2.7)	264 (2.1)
Colorado	3 (1.0)	253 (9.1)!	24 (3.2)	271 (2.0)	73 (3.1)	272 (1.3)
Connecticut	2 (0.7)	*** (***)	25 (3.0)	264 (3.5)	73 (2.9)	276 (1.1)
Delaware	3 (0.2)	*** (***)	25 (1.0)	258 (1.3)	72 (1.0)	264 (1.2)
Dist. Columbia	22 (0.8)	224 (1.8)	36 (1.2)	229 (1.8)	42 (0.9)	246 (1.6)
Florida	9 (1.9)	246 (4.3)!	39 (3.5)	255 (1.8)	52 (3.9)	265 (2.2)
Georgia	6 (1.3)	246 (5.0)!	43 (3.0)	256 (2.1)	52 (3.1)	261 (1.7)
Hawaii	2 (0.2)	*** (***)	19 (0.9)	250 (1.7)	79 (0.9)	260 (1.0)
Idaho	4 (1.3)	268 (3.7)!	20 (2.5)	270 (1.6)	76 (2.8)	277 (0.9)
Indiana	3 (1.1)	*** (***)	21 (3.3)	269 (2.4)	77 (3.5)	270 (1.5)
Iowa	1 (1.1)	*** (***)	24 (3.3)	279 (2.4)	75 (3.4)	284 (1.1)
Kentucky	2 (0.4)	*** (***)	41 (4.2)	262 (1.7)	58 (4.4)	263 (2.0)
Louisiana	8 (2.4)	231 (4.5)!	46 (4.3)	251 (2.4)	46 (4.1)	252 (2.4)
Maine	1 (1.1)	*** (***)	29 (3.3)	279 (2.6)	70 (3.3)	278 (1.2)
Maryland	3 (1.1)	242 (9.6)!	35 (3.5)	258 (3.0)	62 (3.6)	271 (1.8)
Massachusetts	3 (1.2)	*** (***)	17 (2.9)	271 (3.7)	80 (3.0)	272 (1.3)
Michigan	4 (1.9)	241(11.4)!	23 (3.2)	256 (4.1)	73 (3.1)	271 (1.8)
Minnesota	2 (1.0)	*** (***)	20 (3.3)	279 (3.2)	78 (3.4)	282 (1.1)
Mississippi	8 (2.3)	240 (5.4)!	39 (3.7)	244 (2.4)	53 (4.0)	247 (1.9)
Missouri	1 (0.2)	*** (***)	23 (3.3)	265 (2.2)	76 (3.4)	273 (1.2)
Nebraska	0 (0.2)	*** (***)	23 (4.0)	279 (2.5)	77 (3.9)	277 (1.3)
New Hampshire	4 (2.3)	285 (4.4)!	24 (3.0)	275 (1.7)	72 (3.4)	278 (1.3)
New Jersey	7 (2.0)	262(11.1)!	37 (4.3)	263 (3.1)	56 (4.7)	278 (1.9)
New Mexico	1 (0.9)	*** (***)	19 (2.6)	254 (2.4)	79 (2.9)	261 (1.0)
New York	7 (2.2)	238 (9.8)!	29 (3.5)	258 (4.7)	64 (3.9)	272 (2.1)
North Carolina	2 (0.8)	258 (7.5)!	45 (3.4)	256 (1.8)	53 (3.6)	259 (1.6)
North Dakota	4 (2.0)	273 (3.6)!	18 (2.5)	283 (3.1)	78 (2.8)	283 (1.1)
Ohio	2 (1.0)	*** (***)	23 (3.3)	260 (2.9)	75 (3.3)	272 (2.0)
Oklahoma	5 (1.8)	250 (4.7)!	20 (3.1)	263 (2.8)	75 (3.3)	270 (1.4)
Pennsylvania	1 (0.9)	*** (***)	19 (3.0)	267 (2.5)	80 (3.2)	272 (1.9)
Rhode Island	2 (0.2)	*** (***)	17 (0.6)	257 (1.2)	81 (0.7)	267 (1.0)
South Carolina	6 (1.8)	239 (4.5)!	38 (3.4)	259 (1.8)	56 (3.4)	264 (1.9)
Tennessee	5 (1.7)	252 (6.6)!	47 (4.0)	256 (1.9)	48 (4.3)	260 (1.9)
Texas	4 (1.5)	253 (7.0)!	45 (3.6)	257 (1.6)	51 (3.6)	272 (2.2)
Utah	4 (1.5)	269 (2.5)!	29 (2.9)	267 (1.5)	67 (3.0)	277 (1.1)
Virginia	3 (1.0)	263(11.5)!	33 (2.7)	262 (1.9)	64 (2.9)	271 (1.5)
West Virginia	3 (1.1)	249 (7.2)!	26 (3.4)	255 (1.9)	71 (3.5)	260 (1.3)
Wisconsin	1 (0.6)	*** (***)	27 (5.2)	276 (4.0)!	72 (5.2)	279 (1.7)
Wyoming	1 (0.2)	*** (***)	18 (2.6)	271 (2.4)	81 (2.6)	276 (0.9)
TERRITORIES						
Guam	0 (0.0)	*** (***)	52 (1.1)	243 (1.6)	48 (1.1)	227 (1.3)
Virgin Islands	6 (0.7)	203 (5.9)	41 (1.0)	218 (1.2)	52 (1.0)	226 (1.4)

When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

TABLE A.65 | **Teachers' Reports on How Often They Use Problem Sets to Assess Student Progress in Mathematics**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Once or Twice a Week		Once or Twice a Month		Yearly or Never	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	53 (3.2)	217 (1.3)	38 (2.6)	219 (1.6)	9 (1.6)	210 (3.0)
Northeast	44 (6.0)	221 (4.0)	47 (6.1)	223 (2.8)	9 (3.7)	208 (8.5)!
Southeast	61 (8.1)	205 (2.1)	30 (5.1)	210 (4.6)	9 (3.6)	213 (4.4)!
Central	52 (6.4)	228 (1.8)	43 (6.2)	219 (2.8)	5 (2.6)	*** (***)
West	53 (3.3)	217 (2.0)	36 (2.9)	222 (4.1)	11 (2.9)	205 (5.6)!
STATES						
Alabama	55 (3.5)	206 (2.1)	35 (3.6)	207 (2.2)	10 (2.6)	214 (3.6)!
Arizona	55 (2.7)	214 (1.3)	34 (2.4)	214 (1.9)	10 (2.1)	216 (3.5)!
Arkansas	54 (3.8)	208 (1.1)	37 (3.7)	210 (2.3)	9 (2.0)	212 (3.1)!
California	39 (3.2)	205 (2.2)	46 (3.0)	209 (2.3)	15 (2.5)	207 (3.7)
Colorado	49 (3.2)	219 (1.5)	37 (2.8)	222 (1.7)	14 (1.6)	220 (2.4)
Connecticut	41 (3.9)	229 (1.8)	49 (3.6)	227 (1.5)	10 (2.2)	225 (6.7)!
Delaware	52 (1.7)	219 (1.0)	35 (1.7)	217 (1.2)	14 (0.8)	215 (2.6)
Dist. Columbia	57 (1.2)	192 (1.3)	34 (1.1)	191 (1.4)	9 (0.5)	182 (2.6)
Florida	56 (3.0)	213 (1.4)	34 (2.8)	213 (2.3)	11 (1.9)	208 (3.1)
Georgia	52 (2.6)	217 (1.5)	39 (2.8)	210 (2.3)	9 (1.4)	218 (4.8)
Hawaii	35 (2.9)	214 (1.6)	53 (2.8)	213 (1.8)	12 (2.0)	208 (4.1)
Idaho	56 (3.2)	220 (1.3)	37 (3.2)	221 (1.4)	7 (1.6)	219 (2.8)!
Indiana	58 (3.4)	220 (1.5)	30 (3.0)	219 (1.8)	12 (2.6)	217 (3.4)!
Iowa	47 (3.5)	230 (1.5)	43 (3.3)	229 (1.4)	10 (2.1)	222 (3.1)!
Kentucky	49 (3.5)	213 (1.6)	40 (3.1)	214 (1.7)	11 (2.7)	214 (3.4)!
Louisiana	61 (3.6)	203 (2.1)	27 (3.0)	204 (2.7)	12 (2.7)	202 (4.2)!
Maine	40 (4.2)	229 (1.3)	48 (4.4)	231 (1.7)	12 (2.1)	233 (4.0)
Maryland	47 (3.2)	219 (1.8)	42 (3.2)	219 (2.1)	11 (2.1)	211 (6.2)!
Massachusetts	46 (3.5)	223 (1.8)	41 (3.0)	229 (1.9)	13 (3.1)	231 (2.5)!
Michigan	49 (3.6)	218 (2.5)	42 (3.9)	220 (2.6)	9 (2.0)	220 (4.1)!
Minnesota	47 (3.7)	228 (1.6)	37 (3.3)	227 (1.8)	15 (2.7)	226 (3.0)
Mississippi	67 (3.8)	200 (1.6)	23 (3.3)	198 (3.4)	10 (2.2)	200 (4.3)!
Missouri	53 (3.0)	222 (1.9)	38 (3.1)	220 (2.3)	9 (2.0)	220 (3.0)!
Nebraska	43 (4.0)	223 (1.5)	47 (4.0)	227 (1.9)	11 (2.5)	225 (3.7)!
New Hampshire	42 (3.4)	228 (1.7)	46 (3.3)	230 (1.8)	12 (2.4)	231 (3.5)
New Jersey	45 (4.2)	224 (2.4)	43 (4.1)	230 (2.2)	12 (2.6)	225 (4.0)!
New Mexico	47 (4.0)	212 (1.7)	36 (3.6)	212 (1.8)	17 (2.5)	211 (3.1)
New York	46 (3.3)	216 (2.0)	43 (3.6)	219 (2.1)	10 (1.9)	213 (4.5)
North Carolina	56 (3.0)	211 (1.5)	35 (3.2)	214 (2.0)	9 (1.7)	210 (3.3)
North Dakota	48 (4.1)	227 (1.4)	41 (3.7)	229 (1.5)	12 (3.3)	226 (1.6)!
Ohio	63 (3.9)	218 (1.4)	30 (3.7)	218 (2.3)	7 (1.4)	211 (4.7)!
Oklahoma	58 (3.9)	219 (1.5)	32 (3.9)	221 (1.5)	10 (2.6)	220 (2.6)!
Pennsylvania	50 (3.8)	224 (1.8)	39 (3.9)	225 (2.3)	10 (1.7)	219 (3.6)
Rhode Island	46 (3.1)	216 (2.1)	41 (2.4)	214 (2.2)	13 (2.5)	208 (4.1)!
South Carolina	56 (3.3)	211 (1.4)	31 (2.9)	211 (1.8)	14 (2.3)	213 (3.8)
Tennessee	58 (2.1)	208 (1.7)	31 (2.4)	213 (2.1)	11 (1.5)	209 (3.5)
Texas	59 (3.4)	218 (1.9)	31 (3.0)	215 (2.5)	10 (1.9)	220 (3.9)
Utah	60 (3.2)	223 (1.2)	32 (3.0)	225 (1.7)	9 (2.1)	219 (2.8)!
Virginia	52 (2.9)	220 (1.9)	37 (3.0)	218 (2.1)	11 (2.3)	220 (2.8)!
West Virginia	47 (3.2)	214 (1.6)	43 (3.0)	212 (1.7)	9 (2.3)	214 (2.9)!
Wisconsin	45 (3.3)	228 (1.6)	45 (3.4)	227 (1.7)	10 (2.3)	231 (4.3)!
Wyoming	51 (3.9)	224 (1.3)	42 (3.6)	225 (1.2)	8 (1.8)	224 (2.9)!
TERRITORY						
Guam	59 (1.1)	191 (1.3)	29 (1.1)	192 (1.7)	12 (0.5)	193 (3.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.65 | **Teachers' Reports on How Often They Use Problem Sets to Assess Student Progress in Mathematics (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Once or Twice a Week		Once or Twice a Month		Yearly or Never	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	59 (2.5)	271 (1.6)	31 (2.5)	263 (1.7)	10 (1.9)	262 (3.2)
Northeast	56 (4.8)	277 (4.0)	31 (4.9)	256 (3.5)	13 (3.9)	251 (4.4)!
Southeast	58 (4.6)	263 (2.2)	27 (4.6)	259 (2.6)	15 (5.3)	261 (3.5)!
Central	58 (4.1)	278 (3.6)	36 (6.0)	270 (3.3)!	6 (3.4)	277 (2.9)!
West	61 (5.3)	269 (3.0)	31 (4.5)	264 (3.3)	8 (2.3)	267(10.2)!
STATES						
Alabama	63 (3.8)	252 (2.2)	31 (3.5)	254 (2.7)	6 (2.6)	237 (3.8)!
Arizona	59 (3.8)	266 (1.5)	34 (3.4)	262 (2.6)	7 (1.7)	258 (4.7)!
Arkansas	55 (4.1)	258 (1.7)	32 (3.7)	256 (2.3)	12 (2.6)	249 (3.5)!
California	46 (3.9)	260 (2.6)	43 (4.0)	264 (2.3)	11 (1.9)	258 (4.2)
Colorado	53 (3.5)	271 (1.3)	39 (3.3)	270 (2.2)	9 (2.1)	275 (3.8)!
Connecticut	44 (3.4)	274 (2.4)	48 (3.4)	275 (1.8)	8 (1.9)	257 (7.3)!
Delaware	57 (0.9)	262 (1.1)	35 (0.9)	262 (2.0)	9 (0.6)	261 (2.9)
Dist. Columbia	56 (1.0)	237 (1.2)	33 (1.1)	232 (1.7)	11 (0.7)	232 (4.0)
Florida	56 (3.6)	258 (1.8)	34 (3.4)	262 (2.3)	11 (1.9)	258 (4.5)
Georgia	60 (3.4)	260 (1.6)	29 (3.0)	257 (2.6)	11 (2.0)	250 (3.3)
Hawaii	48 (1.0)	263 (1.4)	41 (0.9)	253 (1.4)	11 (0.6)	249 (2.0)
Idaho	68 (2.8)	276 (1.0)	26 (2.9)	272 (1.6)	6 (1.3)	271 (3.6)!
Indiana	69 (3.1)	269 (1.7)	25 (2.7)	272 (2.5)	6 (2.1)	266 (6.1)!
Iowa	67 (4.5)	284 (1.3)	28 (4.2)	281 (2.0)	5 (1.7)	278 (3.5)!
Kentucky	58 (4.0)	264 (1.5)	35 (3.9)	261 (1.9)	7 (1.8)	260 (6.0)!
Louisiana	59 (3.9)	250 (2.4)	30 (3.5)	251 (3.2)	11 (2.8)	245 (4.3)!
Maine	50 (5.0)	279 (1.6)	41 (4.7)	279 (2.0)	10 (2.2)	274 (3.4)!
Maryland	48 (3.7)	265 (2.5)	38 (3.3)	267 (2.5)	13 (2.6)	265 (5.0)
Massachusetts	61 (3.2)	272 (1.4)	29 (2.6)	277 (2.8)	11 (2.0)	258 (3.8)
Michigan	64 (3.4)	268 (2.2)	30 (3.1)	265 (2.4)	6 (1.2)	259 (6.0)
Minnesota	64 (4.2)	282 (1.4)	28 (3.8)	279 (2.2)	7 (1.8)	283 (5.2)!
Mississippi	69 (3.6)	248 (1.7)	20 (3.1)	239 (3.2)	11 (2.2)	240 (5.2)
Missouri	56 (4.5)	270 (1.3)	32 (3.8)	272 (1.7)	12 (2.4)	269 (2.8)
Nebraska	62 (4.6)	278 (1.6)	31 (4.1)	275 (2.1)	7 (2.3)	277 (3.9)!
New Hampshire	58 (3.5)	277 (1.3)	32 (3.3)	280 (1.5)	11 (2.7)	277 (3.4)!
New Jersey	47 (4.5)	274 (2.3)	44 (4.3)	271 (2.9)	9 (2.1)	256 (6.3)!
New Mexico	59 (3.7)	261 (1.1)	31 (3.0)	256 (1.8)	10 (2.2)	263 (4.0)!
New York	49 (3.9)	271 (2.0)	42 (3.4)	262 (4.0)	9 (1.8)	254 (7.5)!
North Carolina	57 (3.5)	257 (1.9)	32 (3.4)	259 (2.0)	11 (2.4)	255 (3.0)!
North Dakota	64 (4.1)	284 (1.1)	30 (3.5)	282 (1.9)	6 (1.7)	279 (5.9)!
Ohio	60 (4.1)	271 (2.4)	28 (4.0)	270 (2.5)	11 (2.8)	261 (6.2)!
Oklahoma	64 (3.8)	267 (1.6)	29 (3.2)	269 (1.8)	8 (2.2)	259 (4.6)!
Pennsylvania	67 (3.5)	273 (1.5)	25 (3.1)	268 (4.2)	8 (2.3)	256 (5.9)!
Rhode Island	52 (1.1)	268 (1.2)	33 (1.0)	261 (1.4)	15 (0.8)	265 (2.4)
South Carolina	56 (3.3)	263 (1.6)	31 (2.9)	257 (3.0)	13 (2.2)	261 (3.1)
Tennessee	58 (4.1)	260 (2.0)	32 (3.8)	256 (2.4)	9 (2.1)	251 (3.4)!
Texas	63 (3.0)	264 (1.7)	30 (2.9)	265 (2.7)	7 (1.7)	268 (4.5)!
Utah	71 (2.5)	274 (0.9)	22 (2.2)	274 (2.3)	7 (1.4)	267 (3.2)!
Virginia	63 (2.5)	268 (1.6)	28 (2.4)	265 (2.2)	9 (1.6)	267 (4.3)
West Virginia	58 (3.8)	258 (1.4)	30 (3.2)	261 (1.7)	12 (2.4)	256 (3.3)!
Wisconsin	55 (4.2)	278 (1.8)	34 (3.9)	278 (3.0)	11 (2.6)	277 (3.8)!
Wyoming	61 (3.6)	275 (1.1)	33 (3.5)	275 (2.0)	6 (1.8)	268 (4.1)!
TERRITORIES						
Guam	52 (1.5)	242 (1.5)	26 (1.0)	234 (1.9)	23 (1.4)	223 (2.3)
Virgin Islands	61 (0.9)	220 (1.7)	34 (1.0)	225 (1.4)	6 (0.5)	208 (3.0)

TABLE A.66 | **Teachers' Reports on How Often They Use Short (Phrase/Sentence) or Long (Several Sentences/Paragraph) Written Responses to Assess Student Progress in Mathematics**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Monthly		Once or Twice a Year		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	46 (3.0)	217 (1.8)	16 (1.6)	216 (2.5)	38 (2.3)	217 (1.5)
Northeast	45 (4.0)	220 (4.5)	19 (2.5)	227 (3.4)	36 (3.7)	217 (3.8)
Southeast	51 (7.5)	208 (4.2)	18 (4.1)	205 (3.6)!	31 (4.8)	209 (2.3)
Central	36 (6.6)	223 (3.1)	11 (3.3)	217 (7.6)!	53 (5.2)	225 (2.5)
West	52 (4.2)	220 (2.8)	17 (2.5)	217 (5.0)	31 (3.7)	213 (3.3)
STATES						
Alabama	48 (3.6)	205 (2.1)	21 (2.8)	212 (3.1)	32 (3.3)	207 (2.2)
Arizona	40 (3.1)	215 (1.7)	23 (2.5)	215 (2.4)	37 (2.9)	212 (1.8)
Arkansas	38 (3.3)	207 (1.4)	17 (2.4)	208 (1.8)	45 (3.0)	211 (1.7)
California	50 (3.5)	208 (2.5)	15 (2.5)	210 (3.3)	35 (3.2)	206 (2.2)
Colorado	43 (3.1)	222 (1.6)	22 (3.0)	216 (2.6)	35 (3.2)	220 (2.1)
Connecticut	45 (2.9)	227 (2.3)	17 (2.3)	231 (2.8)	38 (3.0)	226 (1.9)
Delaware	32 (1.1)	219 (1.2)	18 (0.5)	220 (1.6)	50 (1.1)	216 (1.5)
Dist. Columbia	68 (1.0)	191 (1.0)	15 (0.7)	188 (1.8)	18 (0.7)	192 (2.2)
Florida	44 (3.4)	212 (2.0)	18 (2.3)	214 (2.8)	38 (3.1)	212 (1.9)
Georgia	42 (3.4)	211 (1.9)	13 (2.0)	219 (3.2)	44 (3.4)	214 (1.9)
Hawaii	44 (3.5)	216 (1.8)	17 (2.5)	215 (2.7)	39 (3.1)	209 (2.0)
Idaho	39 (3.3)	221 (1.3)	20 (3.1)	220 (1.7)	41 (3.0)	219 (1.4)
Indiana	30 (3.9)	220 (2.6)	17 (2.6)	221 (2.6)	53 (4.0)	219 (1.4)
Iowa	36 (3.6)	231 (1.8)	20 (2.9)	231 (1.6)	44 (3.8)	227 (1.4)
Kentucky	57 (3.8)	214 (1.6)	21 (3.0)	214 (2.2)	22 (3.0)	211 (2.4)
Louisiana	53 (3.9)	200 (2.3)	15 (2.7)	204 (3.2)	31 (3.8)	207 (2.4)
Maine	49 (3.6)	231 (1.4)	24 (2.8)	230 (1.8)	27 (2.5)	231 (2.2)
Maryland	64 (3.2)	219 (2.1)	16 (2.7)	218 (3.4)	20 (2.4)	215 (2.5)
Massachusetts	37 (3.8)	226 (2.7)	22 (3.1)	228 (2.0)	41 (3.8)	226 (1.9)
Michigan	35 (3.5)	213 (3.0)	20 (2.8)	224 (2.5)	45 (3.3)	222 (2.4)
Minnesota	37 (3.4)	229 (2.0)	19 (2.8)	227 (2.0)	44 (3.0)	226 (1.8)
Mississippi	47 (3.8)	198 (1.9)	13 (2.4)	200 (2.9)	40 (3.4)	202 (2.3)
Missouri	41 (4.2)	220 (2.2)	18 (2.5)	222 (2.7)	41 (4.0)	224 (1.7)
Nebraska	32 (3.2)	229 (2.1)	20 (2.8)	225 (2.7)	47 (3.8)	222 (1.8)
New Hampshire	38 (3.4)	231 (1.7)	17 (2.2)	230 (2.4)	45 (3.6)	228 (1.5)
New Jersey	50 (4.0)	226 (2.0)	15 (3.0)	226 (3.8)!	34 (3.6)	229 (2.3)
New Mexico	50 (3.8)	213 (2.0)	16 (2.9)	205 (2.5)	33 (3.7)	214 (1.9)
New York	48 (3.5)	215 (2.0)	16 (2.2)	224 (2.5)	36 (3.5)	217 (2.1)
North Carolina	44 (2.9)	213 (2.0)	17 (2.2)	209 (2.1)	39 (2.8)	213 (1.7)
North Dakota	31 (3.3)	226 (1.3)	21 (3.1)	230 (1.8)	47 (3.2)	228 (1.3)
Ohio	36 (3.3)	218 (2.0)	20 (2.8)	218 (2.4)	44 (3.7)	216 (2.0)
Oklahoma	35 (3.3)	221 (1.5)	19 (2.8)	217 (2.1)	45 (3.6)	220 (1.3)
Pennsylvania	44 (3.4)	223 (2.0)	20 (2.9)	221 (3.1)	36 (3.2)	224 (2.4)
Rhode Island	30 (2.9)	214 (2.9)	17 (2.3)	215 (2.9)	52 (3.3)	214 (1.9)
South Carolina	45 (3.0)	212 (1.7)	15 (2.0)	210 (2.5)	41 (2.9)	212 (1.9)
Tennessee	40 (3.0)	207 (2.1)	18 (2.4)	213 (1.9)	42 (3.0)	211 (1.9)
Texas	58 (3.6)	218 (1.7)	15 (2.4)	218 (3.1)	26 (3.3)	216 (2.5)
Utah	38 (2.7)	225 (1.4)	17 (2.1)	225 (2.2)	44 (3.1)	220 (1.5)
Virginia	41 (3.2)	216 (1.9)	21 (2.8)	224 (3.1)	38 (2.9)	220 (2.1)
West Virginia	32 (3.6)	213 (1.5)	20 (3.0)	211 (3.1)	47 (4.0)	215 (1.5)
Wisconsin	45 (3.7)	230 (1.8)	16 (2.2)	225 (2.0)	39 (4.0)	227 (1.5)
Wyoming	36 (3.0)	225 (1.7)	20 (2.7)	222 (1.6)	44 (3.6)	225 (1.2)
TERRITORY						
Guam	52 (1.3)	192 (1.2)	8 (0.7)	197 (3.0)	40 (1.2)	191 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.66 **Teachers' Reports on How Often They Use Short (Phrase/Sentence) or Long (Several Sentences/Paragraph) Written Responses to Assess Student Progress in Mathematics (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Monthly		Once or Twice a Year		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	43 (2.9)	269 (1.7)	23 (2.2)	267 (2.1)	34 (2.8)	267 (2.1)
Northeast	52 (7.2)	273 (3.8)	16 (3.8)	256 (5.9)!	32 (7.1)	266 (6.1)!
Southeast	51 (4.3)	265 (3.2)	22 (3.5)	257 (4.8)	27 (4.5)	259 (3.3)
Central	34 (4.4)	273 (3.8)	26 (5.0)	278 (4.2)!	40 (5.5)	274 (3.4)
West	38 (6.0)	266 (2.4)	26 (5.0)	270 (2.7)	36 (5.6)	267 (4.5)
STATES						
Alabama	42 (4.3)	256 (2.2)	23 (4.0)	247 (5.1)	35 (3.7)	250 (2.8)
Arizona	46 (3.6)	264 (1.5)	25 (3.7)	264 (2.6)	29 (3.5)	264 (3.7)
Arkansas	27 (2.7)	259 (2.2)	27 (2.8)	256 (2.6)	46 (3.0)	254 (1.9)
California	45 (3.7)	262 (2.7)	21 (2.5)	260 (3.3)	34 (3.6)	261 (3.0)
Colorado	50 (3.6)	273 (1.7)	16 (2.1)	270 (2.6)	34 (3.3)	270 (2.0)
Connecticut	46 (4.0)	278 (2.4)	21 (2.8)	271 (3.1)	33 (3.9)	268 (2.7)
Delaware	42 (1.0)	262 (1.4)	16 (0.5)	265 (2.5)	42 (1.0)	261 (1.6)
Dist. Columbia	63 (1.0)	231 (1.2)	20 (0.9)	246 (2.8)	17 (0.9)	232 (2.4)
Florida	42 (3.9)	261 (2.2)	22 (2.5)	257 (2.2)	36 (3.9)	259 (3.1)
Georgia	44 (3.5)	258 (1.9)	17 (3.1)	259 (3.9)	40 (3.9)	258 (2.1)
Hawaii	37 (0.9)	262 (1.4)	27 (0.8)	260 (1.6)	36 (1.1)	250 (1.3)
Idaho	31 (3.2)	275 (2.1)	27 (3.0)	277 (2.1)	42 (3.0)	273 (1.3)
Indiana	25 (3.6)	272 (2.6)	26 (3.6)	269 (2.3)	49 (4.5)	269 (1.8)
Iowa	39 (4.0)	283 (1.5)	20 (3.0)	282 (2.3)	41 (4.3)	283 (1.7)
Kentucky	52 (3.9)	264 (1.7)	20 (2.7)	265 (2.6)	28 (3.8)	257 (2.4)
Louisiana	45 (4.0)	252 (2.6)	20 (3.0)	254 (2.5)	35 (3.5)	246 (2.4)
Maine	34 (4.2)	284 (1.9)	34 (4.3)	275 (2.3)	32 (3.9)	276 (2.3)
Maryland	59 (3.8)	266 (2.2)	20 (2.9)	270 (2.9)	21 (2.9)	259 (3.9)
Massachusetts	36 (3.6)	276 (2.3)	18 (2.3)	270 (3.5)	46 (3.5)	270 (1.8)
Michigan	45 (3.9)	265 (2.7)	22 (2.9)	270 (3.0)	33 (3.4)	267 (2.7)
Minnesota	41 (4.0)	285 (1.8)	23 (2.8)	278 (2.3)	36 (3.6)	280 (1.7)
Mississippi	46 (4.0)	246 (2.5)	24 (3.0)	241 (2.6)	30 (3.1)	248 (2.0)
Missouri	33 (3.9)	270 (2.1)	24 (3.2)	270 (2.1)	42 (4.0)	273 (1.5)
Nebraska	39 (4.8)	278 (1.9)	25 (3.1)	278 (2.0)	35 (4.1)	276 (2.1)
New Hampshire	37 (4.1)	280 (1.7)	35 (3.6)	279 (1.5)	28 (3.7)	274 (2.6)
New Jersey	59 (4.0)	272 (2.4)	25 (3.7)	274 (4.0)	17 (2.4)	264 (3.9)
New Mexico	35 (3.3)	261 (1.3)	25 (2.6)	257 (1.8)	40 (2.8)	259 (1.5)
New York	46 (3.9)	263 (3.3)	24 (3.1)	270 (4.1)	30 (3.5)	267 (3.7)
North Carolina	44 (4.1)	260 (2.1)	21 (3.0)	256 (2.2)	36 (4.3)	255 (2.3)
North Dakota	28 (3.7)	283 (1.9)	25 (3.5)	281 (2.3)	47 (4.6)	284 (1.3)
Ohio	34 (4.0)	268 (2.3)	19 (3.1)	266 (3.7)	47 (4.7)	272 (2.3)
Oklahoma	29 (2.9)	269 (2.5)	24 (3.5)	268 (2.7)	47 (3.6)	266 (1.8)
Pennsylvania	40 (3.2)	274 (2.8)	23 (2.5)	270 (2.8)	37 (3.0)	267 (1.8)
Rhode Island	37 (0.9)	263 (1.3)	26 (1.0)	265 (1.4)	38 (1.1)	264 (1.4)
South Carolina	47 (3.7)	261 (1.9)	25 (3.3)	260 (2.1)	28 (2.6)	259 (2.5)
Tennessee	39 (3.9)	259 (1.8)	23 (3.7)	257 (3.1)	39 (3.2)	257 (2.6)
Texas	54 (3.7)	265 (2.0)	21 (2.8)	261 (3.3)	26 (3.1)	267 (2.3)
Utah	35 (2.4)	276 (1.4)	23 (2.3)	273 (1.9)	42 (2.6)	272 (1.6)
Virginia	38 (3.2)	271 (2.4)	22 (2.6)	269 (2.3)	39 (3.2)	263 (2.5)
West Virginia	31 (2.8)	260 (1.9)	25 (3.1)	261 (2.1)	44 (4.2)	256 (1.7)
Wisconsin	47 (4.8)	280 (2.8)	26 (5.0)	280 (3.0)!	27 (3.7)	274 (2.1)
Wyoming	32 (2.5)	276 (1.6)	25 (2.6)	277 (2.2)	44 (2.9)	272 (1.1)
TERRITORIES						
Guam	43 (1.2)	243 (1.7)	21 (1.1)	235 (2.0)	36 (0.8)	225 (1.5)
Virgin Islands	26 (1.0)	220 (2.4)	29 (1.3)	221 (1.9)	46 (1.3)	221 (1.3)

TABLE A.67 | **Teachers' Reports on How Often They Use Projects, Portfolios or Presentations to Assess Student Progress in Mathematics**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Monthly		Once or Twice a Year		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (2.0)	218 (2.4)	27 (1.9)	220 (2.4)	52 (2.5)	215 (1.3)
Northeast	22 (3.4)	226 (5.9)!	27 (3.8)	226 (4.9)	50 (4.6)	215 (3.2)
Southeast	23 (4.0)	207 (4.4)	30 (3.2)	212 (4.1)	47 (4.5)	205 (2.0)
Central	23 (4.8)	225 (4.5)!	18 (4.6)	224 (4.7)!	59 (5.5)	223 (1.9)
West	17 (2.8)	214 (2.3)	33 (4.3)	222 (4.9)	50 (5.5)	216 (3.1)
STATES						
Alabama	24 (3.0)	205 (2.6)	26 (2.5)	208 (3.0)	50 (3.6)	208 (2.0)
Arizona	23 (3.0)	213 (2.4)	25 (2.6)	214 (2.0)	52 (3.6)	215 (1.6)
Arkansas	14 (2.3)	206 (3.7)	25 (2.9)	211 (1.9)	61 (3.5)	209 (1.4)
California	31 (3.6)	206 (3.1)	27 (3.1)	211 (2.7)	41 (3.7)	206 (2.2)
Colorado	33 (2.9)	221 (2.4)	26 (2.5)	220 (1.8)	41 (2.6)	219 (1.6)
Connecticut	29 (2.5)	229 (1.9)	20 (2.8)	231 (2.8)	51 (3.1)	226 (1.9)
Delaware	19 (0.9)	223 (1.8)	21 (1.0)	219 (1.4)	60 (0.8)	215 (1.2)
Dist. Columbia	57 (1.2)	191 (1.0)	17 (0.7)	196 (2.3)	26 (1.0)	186 (1.8)
Florida	25 (2.9)	211 (2.4)	28 (2.8)	215 (2.2)	46 (3.3)	212 (1.8)
Georgia	26 (2.8)	212 (2.9)	26 (2.5)	211 (1.9)	47 (3.0)	216 (1.8)
Hawaii	22 (2.3)	217 (2.2)	22 (2.6)	213 (2.9)	55 (2.9)	212 (1.5)
Idaho	15 (2.5)	220 (2.0)	28 (2.9)	219 (1.8)	57 (3.1)	221 (1.3)
Indiana	17 (3.2)	218 (2.8)	25 (3.1)	222 (2.1)	58 (3.6)	218 (1.3)
Iowa	24 (3.5)	230 (2.1)	25 (3.1)	231 (1.6)	52 (3.9)	228 (1.6)
Kentucky	39 (3.5)	214 (1.8)	25 (3.2)	214 (2.5)	36 (3.9)	212 (1.5)
Louisiana	25 (3.2)	201 (3.3)	27 (2.6)	199 (2.9)	48 (3.5)	206 (1.8)
Maine	24 (2.8)	232 (2.2)	24 (3.4)	229 (1.8)	52 (3.5)	231 (1.6)
Maryland	29 (3.3)	218 (2.5)	20 (2.3)	217 (3.3)	51 (3.3)	218 (1.9)
Massachusetts	23 (3.2)	228 (3.3)	23 (3.5)	229 (2.1)	54 (3.8)	225 (1.7)
Michigan	24 (3.4)	210 (4.2)	21 (2.4)	221 (2.6)	55 (3.3)	222 (2.2)
Minnesota	21 (2.5)	225 (2.3)	21 (3.0)	228 (2.5)	58 (3.1)	227 (1.8)
Mississippi	23 (3.0)	195 (2.6)	23 (3.0)	204 (2.1)	54 (3.6)	200 (1.7)
Missouri	18 (3.2)	219 (3.3)	27 (3.5)	223 (2.6)	55 (4.8)	222 (1.9)
Nebraska	16 (2.8)	233 (2.8)	30 (3.3)	228 (2.2)	55 (4.2)	221 (1.7)
New Hampshire	22 (3.0)	231 (2.8)	27 (2.8)	230 (2.0)	51 (3.6)	228 (1.3)
New Jersey	24 (3.6)	229 (4.2)	22 (3.4)	230 (2.2)	54 (4.2)	225 (2.0)
New Mexico	26 (3.0)	215 (2.3)	29 (3.0)	211 (2.2)	44 (3.1)	211 (1.7)
New York	23 (3.1)	215 (3.3)	27 (3.2)	219 (2.4)	51 (3.1)	217 (1.8)
North Carolina	27 (2.7)	213 (2.1)	27 (2.7)	212 (2.1)	47 (2.8)	212 (1.5)
North Dakota	16 (3.2)	228 (2.5)!	20 (2.7)	227 (1.8)	64 (3.6)	228 (0.9)
Ohio	20 (2.9)	219 (2.5)	22 (2.6)	219 (2.8)	58 (3.5)	216 (1.6)
Oklahoma	14 (2.2)	221 (2.8)	29 (3.3)	220 (2.2)	57 (3.3)	219 (1.3)
Pennsylvania	15 (2.3)	224 (3.2)	27 (2.9)	223 (2.3)	58 (3.2)	223 (1.9)
Rhode Island	12 (1.8)	212 (3.7)	21 (2.3)	220 (3.4)	67 (3.0)	212 (1.7)
South Carolina	21 (2.9)	209 (2.2)	29 (2.5)	211 (1.7)	50 (3.1)	213 (1.6)
Tennessee	19 (2.4)	205 (3.5)	25 (2.7)	211 (2.4)	56 (3.3)	211 (1.5)
Texas	28 (3.4)	219 (1.8)	28 (2.5)	219 (2.9)	44 (3.2)	215 (2.2)
Utah	20 (2.4)	229 (2.4)	20 (2.1)	223 (2.0)	60 (2.8)	222 (1.1)
Virginia	19 (2.2)	220 (2.9)	24 (2.0)	224 (2.9)	57 (2.7)	217 (1.8)
West Virginia	18 (2.9)	214 (2.6)	25 (3.2)	216 (2.4)	57 (3.7)	212 (1.5)
Wisconsin	21 (2.7)	232 (2.1)	27 (3.5)	229 (1.9)	51 (3.7)	226 (1.7)
Wyoming	22 (2.4)	224 (2.1)	28 (3.1)	225 (1.5)	51 (3.1)	224 (1.1)
TERRITORY						
Guam	37 (1.0)	192 (1.5)	18 (0.9)	192 (2.4)	45 (1.2)	191 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.67 | **Teachers' Reports on How Often They Use Projects, Portfolios or Presentations to Assess Student Progress in Mathematics (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Monthly		Once or Twice a Year		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	21 (2.2)	267 (2.5)	32 (2.6)	267 (1.6)	47 (2.8)	268 (1.8)
Northeast	26 (5.1)	264 (5.0)!	40 (8.2)	271 (3.6)!	35 (6.4)	266 (6.9)!
Southeast	19 (5.1)	269 (3.7)!	34 (5.8)	256 (2.4)	46 (6.2)	263 (2.0)
Central	18 (4.9)	278 (6.8)!	24 (4.5)	276 (3.0)!	58 (6.0)	273 (3.7)
West	22 (2.8)	262 (4.1)	30 (2.5)	269 (1.5)	48 (3.8)	269 (3.4)
STATES						
Alabama	26 (3.7)	252 (2.9)	32 (4.1)	253 (4.3)	42 (3.7)	250 (2.5)
Arizona	18 (2.7)	266 (2.7)	30 (2.8)	263 (2.5)	52 (3.2)	264 (2.0)
Arkansas	10 (2.1)	259 (2.7)!	27 (2.9)	257 (2.1)	63 (3.6)	254 (1.7)
California	26 (2.5)	257 (3.3)	29 (3.5)	264 (3.2)	45 (3.7)	262 (2.3)
Colorado	27 (3.4)	269 (2.6)	30 (2.9)	274 (2.3)	43 (3.6)	271 (2.0)
Connecticut	19 (1.8)	274 (2.3)	41 (3.6)	275 (3.0)	40 (3.6)	271 (2.1)
Delaware	24 (0.7)	261 (2.0)	32 (1.0)	263 (1.8)	44 (1.0)	263 (1.2)
Dist. Columbia	49 (1.4)	237 (1.3)	29 (1.3)	237 (2.2)	22 (1.0)	228 (2.1)
Florida	18 (2.1)	260 (2.7)	35 (3.1)	261 (2.3)	48 (3.5)	258 (2.2)
Georgia	18 (2.7)	258 (3.4)	32 (3.4)	261 (2.0)	50 (3.9)	256 (2.3)
Hawaii	21 (0.7)	261 (1.6)	29 (1.0)	263 (1.6)	49 (1.0)	252 (1.2)
Idaho	16 (1.8)	274 (1.8)	28 (3.1)	277 (1.8)	56 (3.1)	274 (1.3)
Indiana	16 (2.6)	272 (2.3)	33 (3.6)	269 (2.4)	51 (4.1)	270 (1.7)
Iowa	17 (3.9)	285 (2.8)!	27 (3.6)	284 (1.5)	56 (4.9)	282 (1.4)
Kentucky	29 (3.9)	264 (2.1)	36 (3.6)	265 (2.2)	35 (4.0)	259 (1.8)
Louisiana	20 (3.5)	250 (4.5)	25 (2.9)	252 (3.0)	55 (4.1)	249 (1.8)
Maine	18 (2.9)	281 (2.3)	42 (4.3)	280 (2.1)	40 (4.0)	275 (1.5)
Maryland	26 (3.7)	265 (3.9)	35 (3.4)	265 (2.6)	39 (3.9)	266 (2.5)
Massachusetts	17 (2.5)	277 (3.2)	29 (3.5)	272 (2.7)	55 (4.3)	271 (1.8)
Michigan	24 (3.2)	257 (4.3)	26 (3.1)	260 (3.5)	50 (3.3)	274 (2.0)
Minnesota	17 (2.3)	278 (2.2)	31 (3.8)	282 (2.0)	52 (4.2)	282 (1.8)
Mississippi	16 (2.8)	247 (4.8)	35 (4.2)	246 (2.7)	49 (4.0)	244 (1.9)
Missouri	13 (2.4)	269 (2.6)	32 (3.7)	274 (1.6)	55 (4.1)	270 (1.3)
Nebraska	13 (2.8)	271 (2.7)!	34 (3.7)	280 (1.8)	53 (3.3)	277 (1.7)
New Hampshire	36 (3.6)	276 (1.7)	36 (3.4)	280 (1.8)	27 (3.3)	277 (1.6)
New Jersey	15 (2.7)	274 (4.3)	33 (3.5)	272 (2.9)	52 (3.3)	270 (2.8)
New Mexico	20 (3.1)	258 (2.1)	33 (3.4)	257 (1.8)	47 (3.6)	262 (1.3)
New York	13 (2.5)	259 (7.6)	33 (3.9)	265 (2.7)	54 (4.4)	267 (3.1)
North Carolina	16 (2.5)	260 (3.8)	39 (2.9)	257 (1.8)	45 (3.6)	257 (2.0)
North Dakota	17 (2.4)	287 (2.3)	23 (3.6)	285 (1.9)	60 (3.9)	281 (1.6)
Ohio	14 (2.9)	267 (4.3)	31 (4.4)	265 (3.0)	55 (4.9)	272 (2.3)
Oklahoma	15 (2.9)	272 (2.7)!	26 (3.5)	268 (2.6)	59 (3.4)	266 (1.6)
Pennsylvania	14 (2.6)	267 (4.0)	25 (3.0)	266 (2.8)	61 (3.8)	273 (1.8)
Rhode Island	19 (0.7)	267 (1.9)	31 (1.1)	264 (1.2)	51 (1.1)	265 (1.2)
South Carolina	23 (3.1)	261 (2.6)	34 (3.4)	260 (2.6)	43 (3.8)	261 (1.8)
Tennessee	21 (3.1)	261 (2.9)	32 (3.5)	260 (1.6)	47 (4.1)	255 (1.9)
Texas	26 (3.3)	264 (3.3)	32 (2.9)	268 (2.8)	43 (3.4)	262 (1.8)
Utah	12 (1.9)	276 (3.0)	31 (2.8)	276 (1.6)	57 (3.2)	272 (1.1)
Virginia	21 (2.7)	271 (3.1)	34 (3.4)	267 (1.6)	45 (3.6)	267 (1.8)
West Virginia	12 (2.0)	257 (2.7)	28 (3.4)	258 (2.5)	61 (3.6)	259 (1.3)
Wisconsin	22 (5.1)	278 (4.4)!	29 (3.7)	278 (1.8)	49 (5.1)	278 (2.6)
Wyoming	16 (1.9)	275 (1.5)	36 (2.6)	275 (1.5)	48 (2.8)	274 (1.3)
TERRITORIES						
Guam	26 (1.1)	241 (2.1)	42 (0.9)	241 (1.8)	32 (0.8)	223 (2.2)
Virgin Islands	25 (1.2)	218 (1.8)	21 (1.1)	218 (2.1)	54 (1.1)	223 (1.5)

TABLE A.68 | Students' Reports on How Often They Take Mathematics Tests

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	9 (0.8)	197 (2.3)	30 (1.4)	212 (1.1)	61 (1.7)	223 (1.1)
Northeast	7 (1.1)	198 (6.4)!	25 (1.7)	213 (3.6)	68 (1.8)	229 (2.4)
Southeast	12 (2.1)	185 (2.7)	38 (2.1)	206 (1.6)	50 (3.3)	217 (2.6)
Central	6 (1.5)	205 (4.4)!	23 (3.4)	214 (2.4)	71 (4.0)	226 (2.5)
West	10 (1.1)	205 (4.4)	31 (3.0)	215 (2.1)	58 (3.6)	220 (2.1)
STATES						
Alabama	12 (1.2)	190 (2.4)	45 (1.5)	206 (1.7)	43 (2.0)	214 (2.1)
Arizona	11 (0.9)	200 (2.4)	31 (1.3)	212 (1.4)	58 (1.6)	218 (1.4)
Arkansas	10 (0.8)	191 (2.1)	36 (1.5)	206 (1.3)	54 (1.6)	214 (1.3)
California	12 (0.8)	188 (2.9)	31 (1.3)	204 (2.0)	57 (1.7)	213 (1.9)
Colorado	12 (1.0)	208 (2.1)	29 (1.0)	219 (1.7)	59 (1.4)	223 (1.1)
Connecticut	7 (0.7)	208 (3.8)	24 (1.4)	221 (2.2)	69 (1.8)	229 (1.2)
Delaware	10 (0.9)	197 (2.2)	30 (1.1)	210 (1.7)	60 (1.1)	223 (1.2)
Dist. Columbia	17 (0.7)	178 (1.9)	33 (0.9)	191 (1.3)	49 (1.0)	197 (0.9)
Florida	9 (0.8)	189 (2.8)	34 (1.7)	208 (1.6)	57 (2.0)	219 (1.6)
Georgia	8 (0.5)	190 (3.2)	33 (1.7)	208 (1.8)	59 (1.9)	221 (1.5)
Hawaii	12 (1.0)	194 (2.4)	28 (1.2)	209 (1.6)	60 (1.5)	219 (1.5)
Idaho	8 (0.8)	208 (2.7)	25 (1.3)	217 (1.4)	67 (1.7)	223 (1.0)
Indiana	8 (0.8)	203 (2.3)	24 (1.1)	212 (1.6)	68 (1.3)	224 (1.1)
Iowa	7 (0.6)	213 (2.7)	19 (1.2)	223 (2.0)	74 (1.4)	232 (1.1)
Kentucky	7 (0.8)	196 (2.7)	28 (1.4)	209 (1.4)	65 (1.6)	218 (1.1)
Louisiana	19 (1.4)	189 (2.5)	58 (1.7)	205 (1.3)	23 (1.9)	210 (2.3)
Maine	6 (0.9)	226 (3.8)	20 (1.4)	227 (1.7)	74 (1.7)	233 (1.2)
Maryland	7 (0.6)	191 (3.2)	29 (1.7)	210 (2.1)	65 (1.9)	222 (1.4)
Massachusetts	8 (1.0)	213 (4.4)	27 (1.6)	222 (1.8)	65 (2.0)	229 (1.4)
Michigan	10 (0.9)	200 (2.9)	24 (1.5)	212 (2.3)	66 (1.7)	224 (1.8)
Minnesota	6 (0.5)	209 (2.9)	20 (1.4)	220 (1.8)	74 (1.5)	231 (1.0)
Mississippi	14 (1.0)	184 (2.1)	50 (1.6)	202 (1.3)	35 (1.7)	204 (1.6)
Missouri	7 (0.8)	202 (2.6)	23 (1.5)	215 (2.2)	70 (1.7)	225 (1.3)
Nebraska	5 (1.0)	206 (3.9)	19 (1.4)	215 (2.0)	75 (1.7)	228 (1.3)
New Hampshire	4 (0.7)	214 (2.6)	23 (1.2)	225 (1.6)	73 (1.5)	231 (1.3)
New Jersey	7 (0.6)	201 (3.2)	30 (1.7)	219 (1.9)	62 (1.9)	233 (1.5)
New Mexico	14 (1.4)	202 (2.8)	28 (1.5)	210 (1.7)	58 (1.7)	216 (1.8)
New York	8 (0.7)	198 (3.2)	32 (2.0)	214 (1.6)	60 (2.3)	222 (1.6)
North Carolina	10 (0.6)	190 (2.2)	35 (1.4)	209 (1.8)	54 (1.5)	217 (1.4)
North Dakota	4 (0.7)	211 (3.8)	17 (1.6)	219 (1.7)	79 (1.9)	230 (0.8)
Ohio	9 (0.8)	201 (3.0)	30 (1.6)	213 (1.8)	61 (1.9)	222 (1.3)
Oklahoma	9 (0.7)	204 (2.2)	28 (1.2)	218 (1.5)	63 (1.4)	222 (1.1)
Pennsylvania	6 (0.6)	197 (3.2)	32 (1.5)	217 (1.6)	62 (1.8)	229 (1.5)
Rhode Island	7 (0.8)	197 (3.9)	27 (1.6)	207 (2.1)	65 (2.0)	219 (1.5)
South Carolina	12 (0.9)	196 (1.5)	43 (1.4)	209 (1.4)	45 (1.8)	218 (1.4)
Tennessee	10 (0.7)	195 (2.8)	38 (1.6)	208 (1.7)	52 (1.8)	214 (1.4)
Texas	11 (0.9)	205 (2.2)	37 (2.0)	215 (1.7)	52 (2.2)	221 (1.5)
Utah	7 (0.7)	210 (2.5)	23 (1.5)	222 (1.6)	69 (1.7)	225 (1.1)
Virginia	9 (0.8)	198 (2.6)	30 (1.5)	213 (1.8)	61 (1.7)	227 (1.4)
West Virginia	7 (0.7)	198 (2.5)	26 (1.3)	207 (1.6)	66 (1.4)	218 (1.1)
Wisconsin	6 (0.5)	210 (3.1)	19 (1.3)	221 (2.0)	75 (1.4)	231 (1.0)
Wyoming	12 (1.2)	215 (2.3)	21 (1.2)	221 (1.4)	67 (1.9)	227 (1.0)
TERRITORY						
Guam	18 (1.0)	180 (2.0)	32 (1.0)	193 (1.6)	50 (1.2)	184 (1.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.68 | **Students' Reports on How Often They Take Mathematics Tests (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	7 (0.4)	248 (2.3)	55 (1.4)	264 (1.1)	38 (1.4)	274 (1.4)
Northeast	5 (1.1)	252 (7.9)	55 (3.9)	265 (3.6)	40 (4.5)	274 (3.2)
Southeast	9 (0.8)	238 (3.4)	63 (2.6)	258 (1.8)	27 (2.7)	264 (2.8)
Central	6 (0.5)	252 (5.4)	44 (2.5)	268 (2.4)	51 (2.5)	279 (2.3)
West	6 (0.7)	248 (4.3)	59 (2.1)	266 (2.2)	35 (2.1)	272 (3.3)
STATES						
Alabama	10 (0.8)»	235 (3.0)	74 (1.4)«	252 (1.6)	16 (1.3)	260 (2.9)
Arizona	5 (0.5)>	248 (4.4)	57 (2.4)«	264 (1.4)	39 (2.6)»	268 (1.8)
Arkansas	9 (0.9)»	237 (3.1)	65 (1.7)«	256 (1.4)	26 (1.6)	260 (1.8)
California	5 (0.6)>	240 (4.8)	49 (1.9)«	255 (1.8)	46 (1.8)»	268 (2.1)
Colorado	5 (0.5)>	256 (4.7)	48 (2.1)«	270 (1.5)	47 (2.2)»	275 (1.5)>
Connecticut	6 (0.5)»	255 (3.5)	49 (2.2)«	269 (2.0)	45 (2.4)»	280 (1.4)
Delaware	8 (0.8)»	246 (3.4)	56 (1.5)«	262 (1.1)	36 (1.2)»	266 (1.8)
Dist. Columbia	17 (1.1)»	225 (2.1)	54 (1.1)«	236 (1.1)	28 (1.2)»	237 (2.6)
Florida	9 (0.8)»	244 (3.9)	65 (1.6)«	259 (1.6)	26 (1.5)>	265 (2.0)
Georgia	9 (0.9)>	244 (2.9)	62 (1.3)«	258 (1.2)	29 (1.7)>	265 (1.9)
Hawaii	8 (0.6)	239 (3.5)	52 (1.1)«	257 (1.2)»	40 (1.0)»	261 (1.2)
Idaho	4 (0.4)»	257 (3.5)	51 (1.7)«	273 (0.9)	45 (1.7)»	277 (1.1)
Indiana	5 (0.6)>	250 (4.9)	51 (2.3)«	266 (1.4)	44 (2.3)>	276 (1.5)
Iowa	3 (0.5)	265 (4.8)	44 (2.4)	282 (1.5)>	53 (2.6)	284 (1.1)>
Kentucky	4 (0.4)>	242 (4.1)	50 (1.5)«	259 (1.4)	46 (1.6)»	267 (1.4)
Louisiana	13 (1.5)»	232 (2.6)	79 (1.4)«	251 (1.7)	8 (1.0)	259 (3.6)
Maine[1]	4 (0.5)	269 (4.1)	47 (1.8)	276 (1.5)	49 (1.9)	280 (1.0)
Maryland	7 (0.7)»	234 (3.6)	55 (1.4)«	262 (1.4)	38 (1.5)»	274 (1.6)
Massachusetts[1]	5 (0.7)	266 (4.2)	63 (1.7)	271 (1.2)	32 (1.8)	276 (1.5)
Michigan	5 (0.7)	248 (4.3)	55 (1.9)	263 (1.4)	41 (2.1)	274 (1.9)
Minnesota	3 (0.4)>	261 (5.3)	47 (1.9)<	280 (1.1)>	50 (2.0)	285 (1.4)»
Mississippi[1]	11 (1.0)	231 (2.3)	76 (1.5)	247 (1.3)	13 (1.5)	248 (2.6)
Missouri[1]	5 (0.5)	252 (3.8)	44 (2.1)	267 (1.5)	51 (2.1)	276 (1.4)
Nebraska	4 (0.4)>	249 (4.5)	43 (2.1)«	275 (1.6)	54 (2.1)»	281 (1.3)
New Hampshire	3 (0.4)>	264 (4.7)	57 (1.8)<	276 (1.2)	39 (2.0)>	281 (1.4)>
New Jersey	6 (0.8)>	247 (4.4)	56 (2.0)«	269 (1.8)	38 (2.1)»	279 (1.7)
New Mexico	7 (0.7)»	248 (3.3)	59 (1.7)«	257 (1.2)	35 (1.8)>	264 (1.3)
New York	6 (0.8)>	245 (5.2)	59 (1.6)«	265 (2.1)	35 (1.8)»	271 (2.6)
North Carolina	10 (0.9)>	242 (2.4)	62 (1.7)«	257 (1.4)»	28 (1.8)	265 (1.6)»
North Dakota	4 (0.5)	278 (3.4)	57 (2.2)	282 (1.2)	39 (2.3)	284 (1.8)
Ohio	6 (0.9)>	253 (4.2)	57 (2.1)«	266 (1.8)	37 (2.1)>	272 (1.8)
Oklahoma	4 (0.5)>	247 (4.5)	54 (2.2)<	267 (1.6)>	42 (2.3)	270 (1.4)
Pennsylvania	4 (0.4)»	251 (4.2)	56 (1.8)<	269 (1.6)	40 (1.9)	276 (1.8)
Rhode Island	6 (0.6)»	249 (4.1)	63 (1.4)«	263 (1.1)>	31 (1.4)»	273 (1.4)
South Carolina[1]	11 (0.7)	244 (1.9)	68 (1.1)	260 (1.2)	21 (1.1)	270 (2.0)
Tennessee[1]	9 (0.9)	245 (2.2)	67 (1.6)	258 (1.6)	25 (1.8)	264 (1.8)
Texas	7 (0.7)»	243 (2.9)	63 (1.7)«	260 (1.5)	30 (1.7)>	275 (2.1)>
Utah[1]	4 (0.5)	262 (4.4)	42 (1.5)	270 (1.2)	54 (1.5)	278 (0.9)
Virginia	7 (0.5)»	249 (2.8)>	64 (1.4)«	267 (1.3)	29 (1.4)>	273 (2.1)
West Virginia	7 (0.9)>	248 (3.9)	52 (2.0)«	257 (1.2)	41 (2.1)>	262 (1.3)
Wisconsin	4 (0.5)>	256 (4.3)	45 (2.1)	277 (1.8)	51 (2.2)	280 (1.6)
Wyoming	4 (0.5)»	263 (3.2)	50 (1.6)<	273 (1.1)	46 (1.7)	277 (1.0)>
TERRITORIES						
Guam	9 (0.8)»	218 (3.3)	55 (1.1)«	238 (1.6)»	36 (1.1)»	235 (1.9)
Virgin Islands	17 (0.9)»	211 (1.8)>	70 (1.3)«	222 (1.4)	13 (0.8)	234 (3.2)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.69 | **Teachers' Reports on How Often They Ask Students to Write a Few Sentences About How to Solve a Mathematics Problem**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	19 (2.1)	218 (2.6)	37 (2.2)	217 (2.0)	43 (2.4)	216 (1.5)
Northeast	21 (5.6)	226 (5.5)!	41 (6.2)	220 (4.1)	38 (7.0)	218 (3.5)!
Southeast	19 (3.0)	206 (4.2)	46 (5.1)	209 (3.7)	35 (3.7)	206 (2.1)
Central	13 (3.4)	224 (4.6)!	25 (3.5)	223 (3.3)	62 (5.4)	224 (2.4)
West	25 (5.3)	218 (4.8)!	38 (2.8)	223 (3.2)	37 (4.0)	212 (2.3)
STATES						
Alabama	29 (3.1)	205 (3.3)	41 (4.0)	211 (2.3)	31 (3.4)	205 (2.4)
Arizona	22 (2.6)	214 (2.6)	35 (2.5)	217 (1.8)	44 (3.4)	212 (1.6)
Arkansas	11 (2.2)	210 (2.3)	32 (3.2)	207 (1.6)	56 (3.7)	210 (1.6)
California	28 (3.1)	212 (3.2)	36 (3.1)	205 (2.2)	33 (3.8)	206 (2.4)
Colorado	25 (2.6)	226 (2.3)	39 (3.1)	217 (1.5)	36 (2.7)	219 (2.0)
Connecticut	29 (2.8)	228 (1.7)	38 (2.8)	229 (2.6)	33 (3.0)	226 (2.1)
Delaware	17 (0.8)	220 (1.8)	30 (0.9)	219 (1.3)	53 (1.0)	216 (1.2)
Dist. Columbia	42 (1.0)	191 (1.2)	31 (0.8)	188 (1.4)	27 (0.7)	190 (1.8)
Florida	26 (2.5)	215 (1.9)	34 (2.5)	211 (2.1)	40 (2.9)	212 (2.0)
Georgia	26 (2.8)	210 (2.8)	37 (3.3)	217 (1.9)	36 (2.4)	214 (2.1)
Hawaii	22 (2.7)	217 (2.6)	40 (3.2)	215 (1.8)	38 (3.0)	209 (2.1)
Idaho	16 (2.7)	226 (2.1)	34 (3.8)	220 (1.5)	50 (3.6)	219 (1.3)
Indiana	9 (2.0)	217 (4.5)!	33 (3.4)	220 (1.5)	57 (3.7)	219 (1.4)
Iowa	17 (2.4)	231 (3.2)	39 (3.6)	230 (1.6)	44 (3.8)	228 (1.2)
Kentucky	34 (3.0)	213 (2.0)	39 (3.2)	217 (1.6)	27 (3.4)	208 (2.1)
Louisiana	29 (2.8)	201 (3.0)	44 (3.4)	203 (2.3)	28 (3.4)	203 (2.3)
Maine	30 (3.9)	235 (2.2)	36 (3.9)	229 (1.7)	34 (3.0)	228 (2.0)
Maryland	49 (3.3)	218 (2.4)	36 (2.9)	220 (1.9)	15 (2.2)	214 (3.0)
Massachusetts	26 (3.2)	224 (3.1)	33 (2.8)	231 (1.7)	40 (3.6)	225 (1.9)
Michigan	24 (3.3)	218 (3.6)	36 (3.4)	218 (3.0)	40 (3.3)	221 (2.2)
Minnesota	21 (3.1)	228 (2.5)	36 (3.3)	226 (1.9)	43 (3.3)	228 (1.5)
Mississippi	22 (3.2)	197 (1.9)	33 (3.1)	201 (2.3)	45 (3.6)	202 (2.1)
Missouri	19 (2.6)	219 (3.2)	41 (3.7)	222 (2.2)	40 (3.7)	223 (1.5)
Nebraska	22 (3.4)	233 (2.7)	35 (3.3)	226 (2.0)	43 (4.2)	220 (1.7)
New Hampshire	19 (2.4)	229 (3.0)	39 (3.3)	232 (1.4)	42 (3.4)	227 (1.5)
New Jersey	30 (3.5)	225 (2.3)	45 (4.0)	228 (2.3)	26 (3.1)	226 (2.9)
New Mexico	21 (2.8)	213 (2.3)	42 (3.9)	213 (2.0)	37 (3.5)	211 (2.1)
New York	26 (2.9)	215 (2.7)	39 (2.8)	218 (2.1)	34 (3.0)	218 (2.1)
North Carolina	20 (2.6)	211 (2.3)	36 (2.7)	214 (1.7)	44 (2.6)	212 (1.4)
North Dakota	15 (3.1)	227 (2.3)!	21 (2.9)	229 (2.4)	64 (3.8)	228 (1.1)
Ohio	18 (2.8)	222 (3.0)	36 (3.2)	219 (2.2)	46 (3.7)	214 (1.7)
Oklahoma	14 (2.0)	221 (2.4)	35 (3.1)	219 (1.7)	51 (3.2)	220 (1.3)
Pennsylvania	20 (2.5)	228 (2.9)	38 (2.9)	222 (2.2)	42 (3.3)	221 (2.1)
Rhode Island	16 (2.9)	215 (3.5)	30 (2.7)	218 (2.3)	54 (3.5)	212 (2.1)
South Carolina	21 (2.4)	214 (2.1)	36 (2.7)	212 (1.9)	43 (2.8)	210 (1.8)
Tennessee	17 (2.4)	206 (2.9)	37 (2.8)	212 (1.9)	46 (3.3)	209 (1.7)
Texas	31 (3.3)	217 (2.7)	42 (3.5)	219 (2.0)	28 (3.1)	216 (2.5)
Utah	21 (2.7)	227 (1.9)	34 (2.8)	222 (1.6)	45 (3.5)	222 (1.5)
Virginia	21 (2.6)	219 (3.3)	37 (3.0)	220 (2.2)	42 (3.0)	219 (2.1)
West Virginia	18 (3.3)	218 (2.9)	24 (2.6)	213 (2.4)	58 (4.4)	212 (1.3)
Wisconsin	29 (3.0)	229 (2.3)	37 (3.3)	227 (2.0)	34 (3.7)	229 (1.5)
Wyoming	23 (2.8)	228 (2.0)	38 (3.3)	225 (1.6)	39 (3.5)	222 (1.2)
TERRITORY						
Guam	24 (0.8)	198 (2.0)	29 (1.0)	192 (1.5)	47 (1.2)	188 (1.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.69 **Teachers' Reports on How Often They Ask Students to Write a Few Sentences About How to Solve a Mathematics Problem (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	22 (2.3)	273 (2.6)	38 (2.7)	265 (1.7)	41 (2.6)	267 (1.9)
Northeast	30 (6.8)	272 (5.9)!	40 (5.5)	260 (3.3)	30 (6.7)	273 (6.4)!
Southeast	20 (4.5)	269 (4.6)!	41 (5.6)	260 (2.9)	39 (3.9)	260 (2.0)
Central	11 (2.9)	275(11.9)!	42 (5.6)	278 (1.8)	47 (6.2)	272 (4.4)
West	25 (4.2)	276 (2.7)	31 (4.9)	263 (3.9)	44 (4.3)	266 (3.1)
STATES						
Alabama	18 (3.5)	255 (3.8)!	35 (4.5)	252 (3.9)	47 (4.3)	250 (2.3)
Arizona	28 (3.6)	269 (2.3)	40 (3.8)	263 (1.8)	32 (3.8)	262 (3.2)
Arkansas	12 (2.1)	254 (3.7)	20 (2.9)	258 (3.1)	68 (3.4)	255 (1.7)
California	27 (3.4)	259 (3.4)	38 (2.5)	263 (2.5)	35 (3.2)	260 (2.7)
Colorado	27 (3.0)	272 (2.2)	35 (2.5)	274 (1.7)	37 (3.1)	268 (2.2)
Connecticut	24 (3.2)	280 (4.1)	33 (3.2)	274 (3.0)	42 (4.0)	269 (2.1)
Delaware	22 (0.8)	267 (2.4)	29 (0.9)	259 (2.0)	50 (0.9)	262 (1.3)
Dist. Columbia	42 (1.0)	235 (1.4)	37 (1.1)	237 (1.9)	21 (0.9)	230 (2.0)
Florida	22 (3.0)	265 (3.3)	30 (2.7)	259 (2.2)	48 (3.7)	258 (2.4)
Georgia	22 (3.4)	258 (3.4)	40 (3.2)	258 (1.9)	38 (3.0)	260 (2.5)
Hawaii	18 (0.7)	267 (1.9)	40 (1.0)	260 (1.4)	42 (1.1)	250 (1.2)
Idaho	20 (1.6)	281 (1.5)	31 (2.8)	274 (1.8)	49 (2.8)	273 (1.0)
Indiana	15 (2.5)	276 (3.6)	26 (3.4)	271 (3.0)	58 (3.6)	267 (1.7)
Iowa	18 (3.1)	285 (2.3)	39 (4.5)	284 (1.8)	44 (4.8)	281 (1.6)
Kentucky	24 (3.0)	267 (2.7)	45 (3.4)	263 (1.5)	32 (3.4)	258 (2.2)
Louisiana	25 (3.2)	249 (3.6)	31 (3.1)	251 (3.1)	44 (3.6)	250 (2.0)
Maine	20 (3.7)	280 (2.9)	37 (4.3)	280 (1.7)	44 (3.8)	276 (1.8)
Maryland	28 (3.4)	269 (3.3)	47 (3.8)	266 (2.1)	25 (3.3)	262 (3.1)
Massachusetts	17 (2.7)	276 (3.5)	33 (3.3)	273 (2.7)	51 (4.2)	270 (1.7)
Michigan	30 (3.4)	264 (4.0)	34 (3.2)	268 (2.5)	36 (3.3)	268 (2.7)
Minnesota	27 (2.7)	286 (1.8)	26 (3.0)	281 (3.0)	47 (3.5)	279 (1.6)
Mississippi	25 (3.3)	245 (3.6)	41 (3.8)	243 (2.1)	35 (4.1)	249 (1.6)
Missouri	16 (2.2)	275 (2.7)	27 (3.4)	268 (2.3)	57 (3.8)	271 (1.5)
Nebraska	16 (3.6)	276 (3.1)!	47 (4.0)	278 (1.7)	37 (4.3)	277 (2.1)
New Hampshire	22 (3.3)	282 (2.1)	45 (3.7)	276 (1.4)	32 (3.8)	276 (2.0)
New Jersey	31 (4.3)	276 (2.6)	41 (4.5)	268 (3.4)	28 (3.5)	272 (3.3)
New Mexico	15 (2.2)	264 (2.3)	30 (2.7)	260 (1.4)	56 (3.3)	258 (1.6)
New York	24 (3.1)	261 (3.8)	25 (2.9)	260 (4.6)	51 (3.7)	270 (2.6)
North Carolina	19 (2.5)	265 (3.1)	38 (3.1)	256 (2.0)	43 (3.3)	255 (1.8)
North Dakota	15 (2.8)	282 (3.4)!	27 (3.1)	282 (1.8)	58 (3.9)	283 (1.3)
Ohio	19 (3.6)	273 (4.0)!	28 (3.5)	269 (3.4)	53 (4.8)	269 (2.2)
Oklahoma	13 (2.8)	266 (4.8)!	28 (2.9)	267 (2.2)	59 (3.4)	268 (1.8)
Pennsylvania	18 (2.6)	272 (3.2)	35 (3.0)	272 (2.0)	46 (3.3)	269 (2.6)
Rhode Island	27 (1.0)	268 (1.7)	39 (0.8)	266 (1.2)	35 (1.0)	262 (1.6)
South Carolina	22 (2.8)	264 (2.2)	36 (3.2)	264 (2.6)	42 (3.2)	256 (2.0)
Tennessee	21 (3.7)	261 (3.4)	30 (3.3)	259 (2.1)	49 (4.1)	256 (2.2)
Texas	25 (3.4)	266 (3.1)	39 (3.4)	264 (2.1)	35 (3.3)	264 (2.0)
Utah	25 (2.0)	278 (1.7)	27 (2.5)	273 (1.6)	48 (2.6)	272 (1.2)
Virginia	19 (2.9)	270 (3.5)	30 (2.7)	267 (2.8)	50 (3.4)	267 (1.7)
West Virginia	14 (2.2)	265 (3.3)	27 (2.7)	261 (2.0)	59 (2.9)	256 (1.3)
Wisconsin	25 (4.6)	285 (3.3)!	32 (4.2)	277 (2.8)	43 (5.2)	275 (2.4)
Wyoming	13 (1.9)	284 (2.7)	28 (2.3)	274 (1.9)	59 (2.6)	273 (1.1)
TERRITORIES						
Guam	14 (0.9)	270 (3.3)	38 (1.1)	234 (1.7)	48 (1.0)	226 (1.5)
Virgin Islands	2 (0.3)	*** (***)	29 (1.2)	230 (2.0)	69 (1.1)	213 (1.3)

***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.70 | **Teachers' Reports on the Frequency with Which Students Make Up Mathematics Problems for Other Students to Solve**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	22 (2.3)	216 (1.9)	47 (2.4)	219 (1.7)	31 (2.5)	214 (1.9)
Northeast	30 (5.0)	223 (4.1)	48 (6.0)	223 (4.1)	22 (3.2)	211 (5.5)
Southeast	20 (3.6)	204 (3.0)	48 (4.1)	210 (3.3)	33 (2.9)	206 (2.1)
Central	18 (4.4)	221 (4.1)!	41 (5.2)	227 (2.7)	41 (7.1)	222 (2.9)
West	25 (5.4)	215 (2.7)!	51 (5.0)	221 (3.2)	25 (4.6)	214 (4.1)!
STATES						
Alabama	30 (3.4)	209 (3.3)	43 (3.4)	209 (1.8)	27 (3.1)	203 (2.8)
Arizona	21 (2.4)	216 (2.3)	45 (2.3)	216 (1.6)	34 (2.9)	210 (1.9)
Arkansas	13 (2.1)	207 (3.0)	32 (3.4)	210 (2.1)	55 (3.3)	209 (1.5)
California	24 (3.2)	209 (3.3)	51 (3.3)	209 (2.1)	25 (2.6)	202 (2.1)
Colorado	24 (2.7)	225 (2.6)	44 (3.1)	219 (1.7)	31 (2.9)	218 (1.9)
Connecticut	29 (2.9)	229 (2.6)	46 (3.0)	230 (1.7)	25 (3.0)	221 (3.0)
Delaware	24 (0.9)	220 (1.8)	43 (1.6)	220 (0.9)	34 (1.5)	212 (1.7)
Dist. Columbia	39 (1.0)	192 (1.2)	38 (1.1)	190 (1.5)	23 (0.8)	190 (1.5)
Florida	27 (3.0)	212 (2.2)	38 (2.2)	215 (1.9)	34 (3.0)	209 (2.1)
Georgia	31 (2.8)	213 (1.9)	42 (2.9)	218 (2.0)	27 (2.4)	207 (2.3)
Hawaii	20 (2.3)	215 (2.3)	41 (2.6)	214 (2.1)	39 (3.0)	211 (2.1)
Idaho	10 (1.9)	222 (2.1)	45 (2.8)	220 (1.4)	45 (2.8)	220 (1.4)
Indiana	16 (2.6)	219 (2.8)	39 (3.4)	220 (1.6)	45 (3.9)	219 (1.5)
Iowa	21 (2.7)	225 (2.0)	48 (3.2)	231 (1.3)	31 (3.0)	228 (2.0)
Kentucky	28 (2.8)	215 (2.1)	45 (3.1)	214 (1.6)	27 (3.5)	211 (2.2)
Louisiana	30 (3.1)	202 (2.9)	37 (3.0)	206 (2.3)	33 (3.4)	200 (2.3)
Maine	21 (2.8)	230 (1.8)	45 (4.0)	232 (1.7)	34 (3.9)	229 (1.9)
Maryland	37 (3.2)	217 (2.5)	48 (3.4)	218 (1.9)	15 (2.1)	219 (3.6)
Massachusetts	23 (2.7)	227 (2.6)	43 (3.6)	227 (2.0)	34 (3.7)	225 (2.0)
Michigan	22 (3.5)	214 (4.7)	40 (3.6)	220 (3.0)	38 (3.5)	220 (1.8)
Minnesota	24 (3.8)	226 (2.8)	46 (3.8)	228 (1.5)	30 (2.9)	227 (1.9)
Mississippi	28 (3.1)	198 (1.9)	35 (3.1)	203 (2.1)	38 (3.3)	199 (2.2)
Missouri	23 (2.6)	221 (3.1)	41 (3.2)	224 (1.9)	37 (3.4)	222 (1.9)
Nebraska	20 (3.1)	228 (3.2)	49 (4.0)	225 (2.2)	31 (3.8)	223 (1.7)
New Hampshire	23 (2.8)	229 (2.7)	51 (3.6)	233 (1.4)	26 (3.0)	222 (1.6)
New Jersey	30 (3.5)	232 (2.5)	39 (3.5)	225 (2.2)	30 (4.1)	224 (2.8)
New Mexico	22 (3.2)	212 (2.5)	45 (3.3)	214 (1.8)	34 (3.4)	210 (2.1)
New York	27 (2.3)	219 (2.2)	46 (3.1)	218 (2.1)	27 (2.6)	214 (2.4)
North Carolina	27 (2.8)	209 (2.2)	39 (2.9)	216 (1.6)	33 (2.9)	211 (1.6)
North Dakota	9 (2.7)	224 (2.7)!	36 (4.3)	227 (1.5)	55 (4.7)	229 (1.3)
Ohio	23 (2.8)	218 (2.5)	46 (2.9)	219 (2.2)	31 (2.5)	214 (2.3)
Oklahoma	17 (2.5)	222 (2.4)	37 (2.8)	218 (1.4)	46 (3.5)	220 (1.4)
Pennsylvania	25 (3.0)	227 (3.2)	38 (3.2)	222 (1.9)	37 (3.5)	221 (2.6)
Rhode Island	17 (2.4)	217 (4.5)	40 (3.4)	218 (2.0)	44 (4.0)	209 (2.7)
South Carolina	28 (3.1)	212 (2.2)	40 (2.9)	214 (1.6)	32 (2.7)	207 (2.4)
Tennessee	19 (2.6)	207 (2.9)	37 (3.2)	210 (1.6)	44 (3.5)	211 (1.6)
Texas	36 (3.2)	220 (2.2)	40 (3.2)	218 (2.1)	24 (3.5)	212 (2.6)
Utah	21 (2.7)	228 (1.9)	42 (2.6)	224 (1.6)	37 (3.1)	220 (1.5)
Virginia	27 (2.8)	220 (3.1)	44 (3.1)	221 (1.8)	29 (2.7)	216 (2.2)
West Virginia	20 (3.0)	217 (2.3)	34 (3.1)	216 (2.0)	46 (3.5)	210 (1.4)
Wisconsin	24 (2.8)	228 (2.3)	49 (3.1)	228 (1.4)	27 (3.2)	228 (2.0)
Wyoming	18 (2.3)	226 (1.9)	46 (3.2)	225 (1.4)	36 (3.4)	223 (1.4)
TERRITORY						
Guam	35 (1.0)	193 (1.3)	32 (1.1)	193 (1.7)	33 (1.2)	188 (2.0)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.70 | **Teachers' Reports on the Frequency with Which Students Make Up Mathematics Problems for Other Students to Solve (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	7 (1.3)	269 (4.0)	33 (2.5)	269 (2.3)	59 (2.6)	267 (1.4)
Northeast	4 (2.1)	253(10.0)!	41 (6.3)	273 (5.7)	55 (6.4)	265 (4.1)
Southeast	9 (2.8)	265 (7.2)!	34 (2.8)	259 (3.2)	57 (3.3)	263 (1.8)
Central	8 (3.6)	274 (5.5)!	32 (6.1)	278 (3.5)!	60 (6.3)	274 (3.8)
West	7 (1.7)	274 (9.0)!	30 (4.5)	266 (4.2)	63 (4.5)	267 (2.3)
STATES						
Alabama	15 (2.8)	244 (7.3)	22 (3.6)	250 (3.0)	63 (4.0)	254 (1.9)
Arizona	8 (1.4)	261 (4.6)	24 (2.9)	263 (2.0)	68 (3.1)	265 (1.7)
Arkansas	9 (1.8)	251 (6.1)!	21 (3.4)	254 (2.6)	71 (3.7)	257 (1.5)
California	8 (2.0)	248 (3.7)!	29 (3.2)	259 (3.5)	63 (3.7)	264 (1.9)
Colorado	10 (2.1)	265 (4.3)!	34 (3.2)	272 (2.1)	56 (3.4)	272 (1.5)
Connecticut	14 (2.0)	266 (2.9)	34 (3.4)	276 (3.4)	52 (3.7)	274 (2.2)
Delaware	13 (0.7)	262 (2.9)	32 (0.8)	262 (1.4)	55 (0.8)	262 (1.3)
Dist. Columbia	23 (0.9)	227 (2.2)	36 (1.1)	242 (1.7)	41 (1.1)	234 (1.7)
Florida	10 (2.0)	265 (5.5)	26 (3.0)	257 (2.4)	64 (3.2)	260 (1.8)
Georgia	14 (2.3)	259 (3.0)	36 (3.2)	257 (2.1)	49 (3.3)	259 (1.9)
Hawaii	10 (0.4)	255 (2.9)	25 (0.8)	258 (1.7)	65 (0.9)	258 (1.1)
Idaho	7 (1.7)	269 (3.0)!	21 (2.2)	270 (1.9)	72 (2.9)	277 (0.9)
Indiana	7 (1.6)	265 (3.3)!	22 (2.9)	272 (3.0)	71 (3.2)	269 (1.5)
Iowa	5 (1.9)	287 (4.0)!	27 (4.1)	283 (2.1)	68 (4.2)	282 (1.2)
Kentucky	10 (2.8)	252 (3.3)!	28 (3.7)	265 (2.1)	62 (4.2)	263 (1.6)
Louisiana	14 (3.0)	246 (4.7)!	25 (3.4)	250 (2.8)	61 (3.7)	250 (2.2)
Maine	10 (3.0)	275 (5.2)!	35 (3.7)	278 (1.7)	55 (4.3)	279 (1.5)
Maryland	12 (2.1)	247 (3.6)	33 (3.2)	267 (3.3)	55 (3.4)	269 (1.8)
Massachusetts	6 (1.5)	269 (7.5)!	29 (3.0)	274 (1.9)	65 (3.3)	271 (1.6)
Michigan	15 (2.8)	261 (5.2)	31 (3.6)	265 (3.6)	53 (3.9)	270 (2.5)
Minnesota	8 (1.8)	287 (4.3)!	23 (2.7)	281 (2.3)	70 (3.3)	281 (1.4)
Mississippi	17 (3.2)	242 (5.4)	36 (3.6)	247 (2.4)	47 (3.9)	245 (1.4)
Missouri	6 (1.6)	268 (3.4)!	24 (2.9)	267 (2.6)	70 (3.1)	273 (1.2)
Nebraska	6 (1.9)	278 (3.6)!	35 (4.1)	275 (2.1)	58 (3.9)	279 (1.6)
New Hampshire	13 (2.5)	272 (2.5)	41 (2.7)	279 (1.6)	46 (3.2)	278 (1.5)
New Jersey	15 (2.9)	261 (6.1)	41 (3.9)	274 (2.7)	44 (3.9)	272 (2.7)
New Mexico	14 (2.5)	254 (2.0)	24 (2.7)	256 (2.0)	61 (3.2)	262 (1.3)
New York	12 (2.6)	257 (5.1)!	28 (4.0)	268 (3.6)	59 (3.8)	266 (3.1)
North Carolina	10 (1.9)	254 (4.4)	36 (3.0)	259 (2.0)	54 (3.1)	257 (1.5)
North Dakota	7 (2.5)	279 (5.4)!	26 (3.2)	284 (1.7)	67 (3.9)	283 (1.3)
Ohio	6 (1.2)	256 (3.2)	22 (3.2)	270 (3.7)	72 (3.3)	270 (1.7)
Oklahoma	4 (1.3)	258 (5.9)!	21 (2.8)	269 (2.6)	74 (3.0)	268 (1.4)
Pennsylvania	7 (1.6)	251 (5.6)!	25 (3.1)	265 (3.1)	68 (3.5)	275 (1.6)
Rhode Island	17 (0.6)	269 (2.0)	25 (0.8)	262 (1.8)	58 (0.9)	265 (1.0)
South Carolina	11 (2.1)	256 (3.7)	38 (2.8)	259 (2.4)	51 (3.2)	262 (1.8)
Tennessee	12 (2.5)	256 (3.4)!	28 (2.9)	257 (2.3)	60 (3.3)	258 (2.1)
Texas	11 (1.8)	253 (3.8)	32 (2.5)	267 (2.2)	57 (3.2)	266 (2.1)
Utah	8 (1.9)	280 (3.0)!	23 (2.2)	271 (1.6)	69 (2.4)	274 (1.0)
Virginia	10 (1.7)	263 (4.3)	31 (3.0)	264 (2.3)	58 (3.3)	270 (1.6)
West Virginia	8 (2.5)	253 (2.6)!	22 (3.0)	260 (2.1)	69 (3.5)	259 (1.4)
Wisconsin	11 (3.1)	276 (5.1)!	43 (5.7)	280 (2.8)	46 (4.9)	277 (1.3)
Wyoming	4 (1.2)	278 (4.8)!	30 (3.0)	276 (1.7)	67 (3.1)	274 (1.0)
TERRITORIES						
Guam	14 (1.1)	258 (2.6)	26 (0.8)	222 (1.8)	59 (1.2)	233 (1.6)
Virgin Islands	27 (0.9)	216 (1.8)	30 (1.2)	225 (1.9)	43 (1.3)	221 (1.7)

TABLE A.71 | **Students' Reports on How Often They Write a Few Sentences About How to Solve a Mathematics Problem**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	21 (0.8)	257 (1.5)	18 (0.7)	269 (1.8)	61 (1.2)	269 (1.2)
Northeast	21 (2.5)	254 (3.1)	17 (1.1)	270 (2.5)	62 (2.5)	273 (3.5)
Southeast	19 (1.2)	247 (3.2)	18 (1.8)	261 (2.0)	63 (2.2)	261 (1.5)
Central	21 (1.1)	267 (3.6)	17 (1.4)	275 (3.8)	62 (2.0)	275 (2.0)
West	23 (1.9)	258 (2.4)	19 (1.1)	269 (3.2)	59 (2.6)	270 (2.9)
STATES						
Alabama	22 (1.4)	242 (3.5)	13 (0.8)	255 (2.4)	64 (1.7)	254 (1.5)
Arizona	20 (1.1)	257 (1.9)	19 (1.0)	268 (1.8)	61 (1.4)	266 (1.4)
Arkansas	17 (0.9)	243 (2.3)	15 (1.0)	259 (2.0)	69 (1.4)	258 (1.3)
California	28 (1.9)	253 (2.8)	20 (1.1)	261 (2.4)	52 (2.4)	264 (1.6)
Colorado	24 (1.6)	268 (2.0)	21 (1.1)	274 (1.5)	55 (1.8)	273 (1.2)
Connecticut	21 (1.5)	265 (3.1)	18 (1.0)	280 (2.3)	61 (1.9)	274 (1.2)
Delaware	20 (1.0)	253 (2.6)	17 (1.0)	265 (2.3)	64 (1.5)	265 (1.1)
Dist. Columbia	39 (1.1)	227 (1.4)	18 (1.0)	240 (2.5)	43 (1.2)	239 (1.4)
Florida	20 (1.1)	250 (2.8)	16 (0.7)	260 (1.9)	64 (1.4)	262 (1.6)
Georgia	23 (1.1)	248 (1.7)	16 (0.8)	263 (2.2)	61 (1.6)	262 (1.3)
Hawaii	31 (1.0)	252 (1.5)	18 (0.7)	262 (2.0)	51 (0.9)	258 (1.1)
Idaho	19 (1.1)	270 (1.8)	15 (0.8)	276 (1.3)	66 (1.3)	275 (0.9)
Indiana	16 (1.4)	263 (2.3)	15 (1.2)	268 (2.0)	68 (2.3)	271 (1.2)
Iowa	16 (1.4)	278 (1.8)	19 (1.2)	285 (1.7)	66 (2.2)	283 (1.1)
Kentucky	29 (1.6)	257 (2.0)	24 (1.1)	264 (1.5)	48 (1.8)	263 (1.4)
Louisiana	25 (1.5)	236 (1.9)	15 (0.7)	254 (2.2)	60 (1.6)	254 (1.8)
Maine	22 (1.6)	276 (1.7)	22 (0.9)	279 (1.7)	57 (1.8)	279 (1.2)
Maryland	24 (1.3)	257 (2.4)	22 (1.0)	268 (1.7)	54 (1.5)	266 (1.7)
Massachusetts	17 (1.1)	269 (2.1)	18 (1.0)	275 (2.1)	65 (1.5)	273 (1.2)
Michigan	26 (1.6)	260 (2.0)	19 (0.9)	272 (2.2)	55 (1.9)	268 (1.6)
Minnesota	25 (1.3)	281 (1.7)	20 (1.1)	285 (2.2)	55 (1.8)	281 (1.1)
Mississippi	27 (1.4)	235 (2.1)	13 (0.8)	245 (2.1)	60 (1.6)	251 (1.4)
Missouri	20 (1.3)	261 (2.1)	17 (0.8)	275 (1.8)	63 (1.5)	272 (1.3)
Nebraska	17 (1.4)	271 (1.9)	18 (1.0)	279 (1.8)	65 (2.0)	278 (1.2)
New Hampshire	18 (1.3)	275 (1.5)	20 (0.9)	279 (1.7)	62 (1.6)	278 (1.2)
New Jersey	28 (1.8)	264 (2.5)	20 (1.4)	278 (2.3)	51 (2.1)	273 (1.6)
New Mexico	18 (1.1)	252 (1.6)	15 (0.8)	257 (1.9)	67 (1.3)	261 (1.2)
New York	24 (1.2)	254 (3.4)	16 (1.0)	269 (2.7)	60 (1.5)	270 (2.0)
North Carolina	22 (0.9)	246 (2.4)	17 (0.8)	260 (1.9)	61 (1.1)	261 (1.2)
North Dakota	16 (1.1)	277 (2.0)	15 (0.8)	282 (2.1)	69 (1.4)	284 (1.5)
Ohio	20 (1.3)	260 (4.1)	17 (1.1)	268 (2.2)	63 (1.8)	270 (1.8)
Oklahoma	15 (1.0)	258 (2.5)	13 (1.0)	268 (2.0)	72 (1.5)	269 (1.2)
Pennsylvania	18 (1.2)	262 (3.0)	16 (0.8)	275 (2.1)	66 (1.7)	272 (1.4)
Rhode Island	22 (1.0)	260 (1.9)	16 (0.8)	266 (2.0)	61 (0.9)	267 (1.1)
South Carolina	23 (1.1)	252 (1.7)	15 (0.8)	265 (1.9)	62 (1.4)	262 (1.2)
Tennessee	19 (1.2)	250 (2.4)	16 (0.7)	259 (2.2)	65 (1.6)	260 (1.3)
Texas	28 (1.4)	257 (2.1)	18 (0.9)	262 (2.3)	54 (1.5)	268 (1.6)
Utah	18 (1.0)	266 (2.0)	16 (0.8)	274 (1.7)	66 (1.2)	276 (0.9)
Virginia	20 (1.3)	259 (2.3)	16 (0.8)	272 (2.1)	64 (1.6)	269 (1.3)
West Virginia	13 (0.8)	252 (2.1)	15 (0.7)	262 (1.5)	72 (1.1)	259 (1.1)
Wisconsin	24 (2.2)	275 (3.3)	19 (1.3)	279 (2.2)	57 (1.8)	278 (1.4)
Wyoming	18 (1.3)	267 (1.4)	19 (0.9)	279 (2.0)	63 (1.6)	275 (0.9)
TERRITORIES						
Guam	31 (1.0)	227 (1.9)	13 (0.9)	241 (3.0)	56 (1.1)	237 (1.5)
Virgin Islands	30 (1.2)	217 (2.0)	13 (1.0)	221 (2.1)	57 (1.4)	225 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.72 | **Students' Reports on the Frequency with Which They Make Up Mathematics Problems for Other Students to Solve**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	8 (0.4)	242 (2.0)	14 (0.8)	267 (1.7)	77 (0.9)	269 (1.1)
Northeast	7 (0.9)	240 (4.7)	16 (1.0)	271 (4.7)	78 (1.3)	270 (3.1)
Southeast	10 (1.1)	236 (3.0)	14 (1.9)	257 (3.0)	76 (1.9)	261 (1.5)
Central	7 (0.7)	250 (4.9)	15 (1.5)	273 (3.2)	78 (1.5)	275 (2.5)
West	9 (0.7)	241 (3.6)	14 (1.2)	265 (2.5)	77 (1.7)	271 (2.2)
STATES						
Alabama	10 (0.9)	231 (3.9)	13 (0.9)	250 (3.4)	78 (1.4)	254 (1.6)
Arizona	8 (0.5)	246 (3.0)	12 (0.7)	264 (2.5)	80 (0.8)	267 (1.3)
Arkansas	8 (0.6)	232 (3.5)	12 (0.9)	252 (2.7)	80 (1.2)	258 (1.1)
California	9 (0.7)	235 (3.6)	17 (0.9)	260 (2.4)	74 (1.2)	264 (1.7)
Colorado	9 (0.8)	258 (3.7)	17 (1.0)	274 (1.9)	74 (1.3)	273 (1.0)
Connecticut	7 (0.6)	250 (4.3)	16 (1.2)	274 (3.0)	77 (1.4)	275 (1.1)
Delaware	9 (0.8)	242 (4.1)	14 (0.9)	260 (2.0)	77 (1.1)	265 (1.0)
Dist. Columbia	21 (1.0)	222 (2.3)	17 (0.8)	245 (2.3)	62 (1.1)	235 (1.2)
Florida	10 (0.7)	239 (2.9)	11 (0.8)	259 (4.0)	79 (1.1)	262 (1.3)
Georgia	10 (0.8)	238 (2.7)	16 (1.1)	257 (1.9)	74 (1.4)	262 (1.2)
Hawaii	15 (0.8)	236 (2.0)	15 (0.7)	257 (1.9)	70 (0.9)	261 (1.0)
Idaho	4 (0.3)	259 (3.6)	13 (0.8)	272 (1.5)	82 (0.8)	276 (0.9)
Indiana	5 (0.6)	250 (3.7)	13 (0.9)	268 (2.7)	82 (1.1)	271 (1.2)
Iowa	5 (0.5)	271 (3.2)	17 (1.2)	283 (1.9)	78 (1.4)	284 (1.1)
Kentucky	8 (0.6)	241 (3.0)	15 (0.9)	263 (2.2)	77 (1.2)	263 (1.0)
Louisiana	14 (0.9)	232 (2.7)	13 (0.8)	252 (2.5)	73 (1.4)	252 (1.7)
Maine	6 (0.5)	264 (3.0)	16 (0.9)	277 (1.7)	78 (1.2)	279 (1.0)
Maryland	8 (0.7)	236 (3.7)	16 (1.1)	264 (2.4)	76 (1.2)	268 (1.2)
Massachusetts	5 (0.5)	255 (3.4)	13 (1.0)	273 (3.0)	81 (1.1)	273 (1.1)
Michigan	9 (0.7)	249 (3.4)	15 (1.1)	271 (2.8)	77 (1.5)	268 (1.3)
Minnesota	7 (0.7)	268 (3.2)	15 (0.9)	280 (1.9)	79 (1.2)	283 (1.1)
Mississippi	14 (0.9)	230 (2.6)	14 (1.1)	249 (2.5)	71 (1.7)	248 (1.1)
Missouri	7 (0.8)	252 (3.5)	13 (0.9)	272 (2.4)	80 (1.2)	272 (1.1)
Nebraska	5 (0.5)	262 (4.5)	17 (1.5)	277 (2.5)	77 (1.7)	278 (1.2)
New Hampshire	5 (0.5)	265 (3.7)	19 (1.0)	279 (1.6)	76 (1.2)	278 (1.1)
New Jersey	10 (0.8)	253 (3.4)	18 (1.3)	273 (2.1)	72 (1.6)	274 (1.6)
New Mexico	9 (0.8)	238 (2.7)	12 (0.7)	257 (2.2)	79 (1.1)	262 (1.0)
New York	10 (0.9)	236 (4.6)	13 (0.8)	264 (4.1)	78 (1.1)	270 (1.8)
North Carolina	11 (0.7)	239 (2.7)	18 (0.8)	259 (1.9)	71 (1.1)	260 (1.2)
North Dakota	4 (0.5)	271 (3.2)	12 (0.8)	285 (2.2)	84 (1.1)	283 (1.3)
Ohio	6 (0.5)	244 (3.6)	14 (1.1)	266 (2.3)	80 (1.1)	270 (1.7)
Oklahoma	5 (0.5)	244 (4.6)	11 (1.0)	264 (2.4)	84 (1.2)	269 (1.1)
Pennsylvania	7 (0.7)	250 (3.6)	14 (0.8)	268 (2.4)	80 (1.0)	273 (1.5)
Rhode Island	8 (0.6)	249 (2.7)	13 (0.8)	264 (1.9)	79 (0.8)	267 (0.9)
South Carolina	11 (0.9)	241 (2.4)	17 (1.0)	262 (1.6)	72 (1.5)	263 (1.1)
Tennessee	8 (0.6)	238 (3.5)	13 (0.7)	255 (1.8)	78 (1.0)	261 (1.4)
Texas	11 (0.8)	244 (2.4)	14 (1.0)	265 (2.4)	75 (1.5)	267 (1.5)
Utah	6 (0.7)	258 (3.4)	14 (0.7)	270 (1.7)	80 (1.1)	276 (0.8)
Virginia	7 (0.6)	248 (3.2)	15 (0.9)	268 (2.1)	78 (1.1)	269 (1.2)
West Virginia	5 (0.5)	242 (2.7)	11 (0.7)	258 (1.6)	83 (0.9)	260 (1.1)
Wisconsin	6 (0.6)	256 (5.1)	17 (1.2)	279 (1.9)	77 (1.5)	279 (1.4)
Wyoming	5 (0.5)	260 (3.7)	15 (1.1)	273 (1.9)	80 (1.3)	276 (0.9)
TERRITORIES						
Guam	21 (1.0)	215 (2.1)	15 (0.9)	234 (2.9)	65 (1.1)	241 (1.1)
Virgin Islands	26 (0.9)	214 (1.5)	13 (0.8)	222 (1.8)	61 (1.1)	225 (1.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.73 | **Teachers' Reports on How Often They Ask Students to Discuss Solutions to Mathematics Problems with Other Students**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	34 (2.4)	218 (1.7)	39 (2.1)	217 (1.7)	26 (2.3)	215 (1.9)
Northeast	41 (7.3)	220 (4.9)!	37 (5.9)	223 (3.7)	22 (6.0)	216 (6.4)!
Southeast	32 (4.1)	208 (2.5)	48 (3.3)	209 (2.9)	21 (2.7)	203 (3.4)
Central	27 (3.4)	226 (3.5)	37 (4.6)	221 (3.2)	36 (5.8)	224 (3.1)
West	40 (5.1)	218 (2.4)	36 (3.9)	220 (4.1)	25 (3.8)	213 (2.2)
STATES						
Alabama	37 (3.6)	209 (2.6)	36 (3.2)	206 (2.2)	27 (3.0)	207 (2.2)
Arizona	34 (3.4)	216 (1.6)	37 (3.2)	214 (1.8)	29 (2.9)	213 (2.4)
Arkansas	22 (3.0)	209 (2.9)	31 (3.0)	211 (1.8)	47 (3.5)	208 (1.5)
California	36 (3.0)	209 (2.8)	40 (3.2)	211 (2.0)	24 (2.4)	199 (3.0)
Colorado	35 (2.8)	222 (1.9)	39 (2.8)	221 (1.5)	26 (2.8)	215 (1.9)
Connecticut	36 (3.6)	231 (2.4)	38 (3.7)	229 (1.9)	26 (3.2)	220 (2.8)
Delaware	32 (0.7)	226 (1.5)	36 (1.1)	214 (1.3)	32 (1.0)	213 (1.6)
Dist. Columbia	47 (1.0)	193 (1.1)	38 (1.0)	191 (1.5)	15 (0.8)	186 (2.2)
Florida	36 (3.1)	212 (2.5)	42 (3.2)	213 (1.7)	22 (2.5)	211 (2.3)
Georgia	32 (2.9)	218 (2.2)	40 (3.0)	211 (2.3)	28 (3.1)	213 (2.4)
Hawaii	27 (2.7)	212 (2.2)	36 (3.1)	215 (2.3)	37 (3.1)	211 (2.0)
Idaho	37 (3.5)	221 (1.6)	36 (3.2)	221 (1.6)	27 (2.7)	219 (1.7)
Indiana	19 (2.7)	221 (2.5)	39 (3.4)	222 (1.7)	42 (3.3)	216 (1.6)
Iowa	30 (3.7)	232 (1.7)	45 (2.9)	229 (1.3)	25 (3.3)	226 (2.2)
Kentucky	33 (3.4)	214 (1.9)	44 (3.3)	214 (1.4)	24 (3.4)	211 (2.0)
Louisiana	41 (3.3)	199 (2.6)	38 (3.1)	207 (2.1)	21 (2.8)	201 (2.6)
Maine	33 (3.3)	232 (2.1)	42 (3.3)	231 (1.4)	25 (2.7)	228 (2.0)
Maryland	39 (3.4)	221 (2.4)	42 (3.4)	219 (2.0)	19 (2.9)	210 (4.4)
Massachusetts	36 (3.3)	229 (2.6)	35 (3.1)	226 (2.0)	30 (2.8)	225 (2.0)
Michigan	32 (3.2)	217 (3.5)	45 (3.5)	220 (2.1)	23 (2.8)	220 (2.6)
Minnesota	28 (3.5)	229 (2.2)	43 (3.8)	225 (1.8)	29 (2.7)	229 (1.7)
Mississippi	36 (3.4)	203 (2.4)	32 (3.2)	199 (2.2)	31 (3.3)	199 (2.5)
Missouri	24 (2.9)	223 (2.5)	41 (3.1)	221 (1.9)	35 (3.3)	223 (2.1)
Nebraska	31 (3.5)	229 (2.3)	43 (3.7)	225 (2.0)	26 (3.2)	220 (2.3)
New Hampshire	36 (3.6)	234 (1.7)	40 (2.9)	227 (1.8)	24 (3.2)	227 (2.1)
New Jersey	34 (3.9)	230 (2.9)	38 (3.6)	227 (1.9)	28 (3.6)	224 (3.0)
New Mexico	30 (3.5)	214 (2.2)	39 (3.8)	212 (2.0)	30 (3.3)	211 (2.1)
New York	33 (3.4)	216 (2.3)	38 (3.6)	218 (2.3)	29 (3.1)	217 (2.4)
North Carolina	32 (2.6)	211 (1.9)	42 (2.8)	214 (1.5)	25 (2.8)	211 (2.0)
North Dakota	17 (3.5)	227 (2.4)!	39 (4.1)	227 (1.3)	44 (3.9)	229 (1.0)
Ohio	27 (3.2)	221 (2.6)	43 (3.5)	216 (1.9)	30 (3.3)	216 (2.0)
Oklahoma	30 (3.5)	221 (1.6)	39 (3.6)	219 (1.6)	31 (3.8)	219 (1.7)
Pennsylvania	35 (2.9)	226 (2.2)	38 (2.7)	223 (2.1)	27 (3.1)	219 (2.9)
Rhode Island	22 (3.1)	215 (3.8)	40 (3.4)	215 (2.3)	38 (3.3)	212 (2.2)
South Carolina	40 (2.8)	214 (1.9)	34 (2.9)	213 (2.0)	26 (2.7)	206 (2.0)
Tennessee	28 (3.1)	208 (2.3)	39 (3.3)	211 (2.1)	34 (3.0)	210 (1.7)
Texas	35 (3.0)	221 (2.5)	42 (3.4)	216 (2.2)	24 (2.8)	215 (3.0)
Utah	32 (2.8)	227 (1.8)	38 (3.0)	223 (1.4)	30 (2.7)	220 (1.7)
Virginia	35 (3.5)	225 (2.5)	40 (2.8)	217 (2.0)	25 (2.4)	217 (2.1)
West Virginia	30 (3.5)	215 (1.9)	34 (3.3)	214 (2.1)	36 (3.5)	211 (1.7)
Wisconsin	33 (3.1)	231 (1.9)	40 (2.9)	229 (1.8)	27 (3.0)	224 (2.3)
Wyoming	35 (2.9)	224 (1.7)	42 (2.9)	225 (1.4)	23 (2.8)	223 (1.7)
TERRITORY						
Guam	34 (1.1)	194 (1.7)	28 (1.3)	191 (1.3)	38 (1.2)	189 (1.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.73 **Teachers' Reports on How Often They Ask Students to Discuss Solutions to Mathematics Problems with Other Students (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	43 (2.6)	273 (1.6)	32 (2.2)	265 (2.1)	25 (2.2)	261 (1.9)
Northeast	45 (5.1)	275 (4.0)	31 (4.7)	268 (5.0)	25 (3.1)	255 (4.0)
Southeast	31 (5.3)	269 (3.0)	40 (5.0)	261 (2.8)	29 (3.7)	255 (3.5)
Central	38 (4.8)	276 (3.9)	33 (6.2)	274 (4.1)!	29 (3.7)	274 (3.9)
West	55 (4.9)	273 (2.6)	26 (2.3)	260 (4.0)	19 (5.1)	260 (3.0)!
STATES						
Alabama	41 (3.9)	256 (2.2)	39 (3.9)	251 (3.5)	20 (2.8)	244 (3.3)
Arizona	48 (4.1)	267 (2.0)	35 (3.7)	266 (2.2)	17 (2.7)	254 (2.9)
Arkansas	39 (4.2)	258 (1.8)	32 (3.3)	258 (2.7)	29 (4.1)	250 (2.2)
California	49 (3.7)	264 (2.2)	34 (3.3)	265 (2.9)	17 (2.5)	246 (3.4)
Colorado	53 (3.3)	277 (1.6)	31 (2.8)	267 (2.3)	16 (2.2)	262 (2.5)
Connecticut	36 (3.7)	277 (3.4)	39 (3.6)	273 (2.9)	25 (3.2)	269 (2.8)
Delaware	36 (1.1)	269 (1.5)	46 (1.0)	259 (1.6)	17 (0.7)	259 (2.5)
Dist. Columbia	69 (1.2)	236 (1.3)	25 (1.1)	236 (2.3)	6 (0.6)	223 (3.2)
Florida	46 (3.0)	265 (2.0)	39 (3.2)	258 (2.2)	16 (2.1)	246 (2.6)
Georgia	52 (3.5)	263 (2.0)	31 (3.2)	255 (2.0)	17 (2.6)	250 (2.7)
Hawaii	34 (0.9)	262 (1.3)	39 (1.0)	257 (1.3)	26 (0.9)	252 (1.7)
Idaho	53 (2.8)	276 (1.4)	33 (2.3)	274 (1.7)	13 (2.1)	270 (2.8)
Indiana	36 (3.3)	273 (2.0)	36 (3.6)	271 (2.4)	28 (3.3)	263 (2.1)
Iowa	40 (4.0)	287 (1.5)	40 (4.5)	283 (1.9)	21 (3.9)	277 (2.6)!
Kentucky	41 (4.1)	267 (1.9)	38 (3.7)	262 (1.8)	21 (3.0)	252 (2.9)
Louisiana	43 (3.8)	248 (2.9)	39 (3.5)	254 (2.4)	18 (2.8)	246 (2.5)
Maine	42 (3.6)	281 (1.8)	43 (3.4)	279 (1.3)	15 (2.5)	269 (4.0)
Maryland	48 (3.7)	269 (2.3)	33 (3.3)	264 (2.8)	19 (2.8)	258 (3.4)
Massachusetts	36 (3.5)	279 (2.6)	36 (3.5)	271 (2.4)	29 (3.0)	265 (2.8)
Michigan	51 (3.8)	271 (2.6)	30 (3.0)	260 (2.9)	19 (2.6)	268 (2.9)
Minnesota	41 (3.6)	286 (1.6)	37 (3.6)	279 (2.1)	22 (3.5)	277 (2.3)
Mississippi	46 (4.1)	249 (2.0)	33 (3.8)	243 (2.6)	21 (3.1)	242 (2.4)
Missouri	47 (3.6)	275 (1.7)	31 (2.9)	270 (2.4)	22 (2.8)	265 (2.0)
Nebraska	47 (4.4)	283 (1.5)	34 (4.0)	273 (2.1)	18 (3.1)	271 (3.1)
New Hampshire	35 (3.2)	282 (1.5)	53 (3.6)	277 (1.3)	12 (2.4)	269 (1.9)!
New Jersey	43 (4.3)	276 (2.7)	36 (3.9)	268 (3.1)	20 (3.4)	268 (4.7)
New Mexico	49 (3.3)	264 (1.2)	38 (3.4)	257 (1.4)	12 (1.9)	250 (2.6)
New York	30 (3.4)	269 (4.0)	39 (3.9)	265 (4.2)	31 (3.3)	264 (3.1)
North Carolina	42 (3.2)	260 (1.9)	33 (2.9)	259 (2.0)	25 (3.0)	251 (2.4)
North Dakota	49 (4.2)	286 (1.8)	28 (3.7)	282 (1.9)	23 (3.3)	277 (2.1)
Ohio	27 (3.5)	274 (3.4)	42 (4.0)	269 (2.5)	31 (4.2)	265 (4.2)
Oklahoma	47 (4.0)	270 (1.8)	33 (3.7)	267 (1.9)	20 (2.8)	263 (2.5)
Pennsylvania	32 (3.3)	272 (3.6)	40 (3.3)	273 (1.8)	28 (2.9)	267 (2.5)
Rhode Island	44 (0.9)	270 (1.1)	30 (0.8)	262 (1.7)	26 (0.9)	260 (1.3)
South Carolina	41 (3.0)	265 (2.2)	40 (3.0)	261 (2.4)	19 (2.7)	250 (2.7)
Tennessee	40 (3.5)	261 (2.5)	33 (3.4)	257 (1.7)	27 (3.5)	254 (3.4)
Texas	57 (3.2)	266 (2.1)	27 (2.5)	262 (2.5)	15 (2.5)	258 (2.9)
Utah	60 (2.8)	278 (1.1)	22 (2.0)	270 (1.9)	18 (1.9)	263 (2.3)
Virginia	42 (3.1)	271 (2.1)	39 (3.0)	267 (1.9)	18 (2.7)	260 (2.7)
West Virginia	47 (3.1)	262 (1.5)	31 (2.9)	256 (2.0)	22 (2.5)	254 (2.1)
Wisconsin	48 (4.8)	282 (2.7)	32 (4.1)	277 (2.1)	20 (4.7)	273 (5.9)!
Wyoming	53 (3.6)	279 (1.2)	30 (3.3)	272 (1.4)	17 (2.3)	266 (2.2)
TERRITORIES						
Guam	26 (1.5)	260 (2.0)	33 (1.7)	227 (2.3)	41 (0.9)	222 (1.6)
Virgin Islands	42 (1.1)	220 (1.5)	40 (1.4)	224 (1.5)	19 (0.9)	216 (1.7)

TABLE A.74 | **Teachers' Reports on How Often They Ask Students to Work and Discuss Mathematics Problems that Reflect Real-Life Situations**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	27 (2.2)	216 (1.8)	47 (2.5)	218 (1.6)	25 (2.3)	216 (1.8)
Northeast	28 (5.6)	226 (4.8)!	49 (4.7)	219 (3.7)	23 (4.1)	216 (5.1)!
Southeast	28 (4.6)	207 (2.6)	52 (3.7)	208 (3.0)	20 (2.8)	206 (2.5)
Central	22 (2.6)	223 (3.5)	45 (6.7)	225 (3.0)	33 (6.2)	223 (3.1)!
West	32 (5.0)	214 (2.8)	44 (4.9)	222 (3.2)	24 (4.7)	214 (3.1)!
STATES						
Alabama	29 (3.3)	208 (3.1)	42 (3.4)	208 (2.2)	29 (3.0)	206 (2.1)
Arizona	21 (2.3)	217 (1.9)	46 (2.4)	216 (1.5)	33 (2.7)	211 (2.1)
Arkansas	20 (2.9)	210 (2.3)	42 (3.5)	210 (1.7)	39 (3.3)	208 (1.6)
California	28 (3.4)	211 (3.0)	42 (3.2)	207 (2.2)	30 (3.0)	205 (2.6)
Colorado	26 (2.8)	224 (2.0)	44 (3.1)	219 (1.6)	30 (3.4)	218 (1.8)
Connecticut	28 (2.9)	230 (2.2)	45 (3.4)	226 (1.9)	27 (3.4)	227 (3.0)
Delaware	26 (0.8)	224 (1.6)	41 (1.4)	217 (1.6)	33 (1.1)	213 (1.5)
Dist. Columbia	29 (0.9)	189 (1.6)	50 (1.2)	194 (1.3)	21 (0.8)	186 (1.8)
Florida	32 (3.0)	211 (2.0)	49 (2.8)	213 (1.6)	19 (2.2)	212 (3.0)
Georgia	28 (2.7)	215 (2.5)	48 (3.1)	214 (2.4)	25 (2.6)	212 (2.3)
Hawaii	19 (2.6)	215 (2.6)	42 (3.0)	213 (2.0)	39 (3.0)	212 (2.2)
Idaho	21 (2.9)	225 (2.1)	48 (3.0)	219 (1.3)	31 (2.7)	220 (1.4)
Indiana	23 (3.5)	222 (2.4)	39 (3.5)	220 (1.7)	39 (3.5)	217 (1.4)
Iowa	26 (3.1)	227 (2.1)	46 (3.5)	231 (1.5)	27 (3.3)	228 (1.8)
Kentucky	31 (3.3)	214 (2.2)	44 (3.7)	215 (1.6)	24 (3.4)	210 (1.9)
Louisiana	39 (3.1)	206 (2.4)	40 (2.9)	202 (2.2)	21 (3.1)	199 (2.7)
Maine	22 (3.0)	230 (2.2)	48 (3.6)	231 (1.7)	30 (3.7)	230 (1.8)
Maryland	30 (2.4)	220 (2.3)	54 (2.5)	217 (2.1)	16 (2.4)	217 (3.5)
Massachusetts	23 (3.4)	228 (2.8)	47 (3.6)	226 (1.9)	30 (3.2)	227 (2.0)
Michigan	28 (3.2)	216 (4.2)	46 (3.7)	219 (2.1)	25 (2.8)	221 (2.8)
Minnesota	29 (3.3)	226 (2.0)	41 (2.8)	229 (1.9)	30 (2.7)	226 (1.7)
Mississippi	30 (3.6)	201 (2.6)	38 (3.5)	202 (2.0)	32 (3.2)	198 (2.2)
Missouri	28 (3.3)	221 (3.3)	46 (3.3)	222 (2.0)	26 (3.1)	223 (2.1)
Nebraska	25 (4.0)	230 (2.0)	43 (3.6)	224 (2.0)	32 (4.0)	222 (2.0)
New Hampshire	19 (2.6)	234 (2.6)	50 (3.5)	229 (1.4)	31 (3.7)	227 (2.2)
New Jersey	35 (4.0)	229 (2.6)	41 (3.9)	225 (2.3)	24 (3.2)	226 (2.9)
New Mexico	20 (3.1)	214 (2.9)	47 (3.1)	211 (1.7)	33 (3.3)	212 (1.8)
New York	27 (2.8)	217 (2.5)	47 (3.7)	218 (2.2)	27 (2.6)	216 (2.4)
North Carolina	26 (2.7)	212 (2.3)	45 (2.9)	211 (1.6)	30 (2.8)	215 (1.7)
North Dakota	20 (3.4)	227 (2.4)	37 (3.7)	229 (1.2)	43 (4.2)	227 (1.3)
Ohio	21 (3.5)	220 (3.1)	50 (3.9)	218 (1.8)	29 (3.3)	215 (2.4)
Oklahoma	23 (2.7)	219 (1.9)	51 (3.4)	219 (1.4)	26 (2.9)	220 (1.6)
Pennsylvania	29 (3.6)	227 (2.4)	44 (3.3)	222 (1.9)	27 (3.0)	220 (2.9)
Rhode Island	15 (2.4)	215 (5.0)	47 (3.6)	215 (2.2)	37 (3.6)	212 (2.3)
South Carolina	34 (3.2)	212 (1.9)	45 (3.2)	212 (1.6)	21 (2.6)	210 (2.4)
Tennessee	23 (2.5)	208 (2.8)	42 (3.2)	212 (2.1)	35 (3.3)	208 (1.8)
Texas	45 (3.7)	219 (2.2)	40 (3.4)	216 (2.5)	15 (2.8)	215 (3.2)
Utah	28 (2.9)	227 (1.7)	45 (2.9)	221 (1.5)	27 (2.6)	222 (1.7)
Virginia	27 (3.0)	219 (2.7)	46 (2.9)	223 (1.8)	27 (2.7)	215 (2.4)
West Virginia	23 (2.9)	218 (2.3)	37 (3.3)	213 (1.6)	40 (3.8)	211 (1.6)
Wisconsin	28 (3.1)	230 (2.2)	49 (3.0)	228 (1.7)	23 (2.8)	227 (2.2)
Wyoming	27 (2.5)	226 (2.0)	45 (3.3)	225 (1.2)	28 (3.3)	223 (1.5)
TERRITORY						
Guam	22 (0.9)	191 (1.9)	45 (1.4)	192 (1.5)	33 (1.2)	191 (1.6)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.74 | **Teachers' Reports on How Often They Ask Students to Work and Discuss Mathematics Problems that Reflect Real-Life Situations (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Almost Every Day		At Least Once a Week		Less than Weekly	
	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency	Percentage of students	Average Proficiency
NATION	19 (1.7)	269 (3.0)	51 (2.3)	268 (1.4)	30 (2.2)	267 (1.9)
Northeast	14 (5.0)	277(10.1)!	57 (6.0)	270 (3.3)	29 (3.9)	260 (4.7)
Southeast	23 (3.3)	264 (3.5)	40 (4.3)	259 (2.8)	37 (5.5)	263 (3.0)
Central	11 (3.2)	265 (4.7)!	64 (4.5)	276 (2.6)	25 (4.5)	276 (5.5)!
West	26 (2.6)	271 (4.3)	46 (4.2)	264 (3.1)	28 (3.4)	271 (3.0)
STATES						
Alabama	30 (4.2)	253 (2.8)	46 (4.1)	250 (3.0)	24 (3.3)	253 (3.1)
Arizona	24 (3.0)	265 (2.1)	45 (4.0)	265 (2.1)	31 (4.0)	262 (2.9)
Arkansas	16 (2.7)	252 (2.7)	45 (4.2)	253 (1.6)	39 (3.8)	261 (2.4)
California	16 (2.1)	255 (4.2)	44 (3.0)	262 (2.4)	40 (2.7)	263 (2.3)
Colorado	25 (3.2)	273 (2.6)	45 (3.1)	270 (2.0)	30 (3.3)	272 (2.0)
Connecticut	21 (2.5)	273 (3.3)	50 (3.2)	271 (2.2)	29 (3.0)	277 (2.8)
Delaware	29 (0.7)	259 (1.9)	42 (1.1)	262 (1.6)	29 (0.8)	266 (2.0)
Dist. Columbia	29 (1.0)	236 (2.2)	53 (1.3)	234 (1.5)	18 (0.9)	236 (2.7)
Florida	27 (2.9)	260 (2.7)	45 (2.9)	259 (1.8)	28 (2.7)	259 (3.0)
Georgia	32 (3.5)	257 (2.5)	50 (3.4)	258 (1.9)	19 (2.4)	261 (2.9)
Hawaii	16 (0.6)	260 (2.1)	42 (1.0)	254 (1.3)	43 (1.0)	260 (1.2)
Idaho	25 (2.7)	271 (2.0)	46 (3.1)	275 (1.1)	29 (3.1)	277 (1.8)
Indiana	15 (2.7)	267 (3.9)	52 (3.4)	271 (1.8)	33 (3.1)	268 (2.3)
Iowa	24 (3.4)	283 (2.1)	52 (3.9)	283 (1.5)	24 (3.9)	283 (3.0)
Kentucky	24 (3.2)	265 (2.6)	42 (3.9)	261 (1.9)	34 (3.5)	263 (1.4)
Louisiana	22 (3.1)	248 (3.4)	48 (4.1)	251 (2.4)	30 (3.5)	250 (2.6)
Maine	31 (3.6)	279 (2.1)	44 (3.6)	278 (1.8)	26 (2.6)	278 (2.1)
Maryland	22 (3.3)	262 (3.3)	44 (3.6)	265 (2.8)	34 (3.4)	270 (2.3)
Massachusetts	18 (2.7)	275 (2.7)	45 (3.1)	271 (1.7)	36 (2.9)	272 (2.1)
Michigan	31 (3.6)	273 (3.9)	48 (3.0)	261 (2.0)	21 (2.8)	271 (3.5)
Minnesota	24 (3.1)	284 (2.1)	44 (4.5)	280 (1.5)	32 (4.4)	281 (2.3)
Mississippi	31 (4.0)	246 (2.6)	43 (4.4)	244 (2.4)	27 (3.9)	246 (2.9)
Missouri	22 (2.9)	266 (2.2)	51 (3.3)	271 (1.5)	26 (3.0)	275 (2.3)
Nebraska	20 (2.9)	275 (2.2)	50 (3.6)	278 (1.8)	31 (3.4)	278 (2.4)
New Hampshire	18 (2.7)	278 (2.4)	51 (3.5)	276 (1.2)	31 (3.6)	281 (1.9)
New Jersey	29 (3.1)	271 (3.3)	45 (3.7)	268 (3.0)	27 (3.3)	277 (3.2)
New Mexico	20 (2.6)	256 (2.1)	51 (3.3)	261 (1.0)	29 (2.8)	258 (2.0)
New York	21 (3.0)	264 (4.3)	42 (3.1)	264 (3.3)	37 (2.9)	268 (3.7)
North Carolina	15 (2.1)	254 (3.4)	49 (3.1)	257 (1.7)	36 (3.3)	259 (1.8)
North Dakota	26 (3.7)	282 (2.3)	49 (4.2)	282 (1.2)	25 (3.6)	286 (2.6)
Ohio	19 (3.1)	268 (2.4)	45 (3.6)	265 (2.2)	36 (3.9)	276 (2.6)
Oklahoma	24 (3.3)	265 (2.3)	41 (3.2)	267 (2.1)	35 (3.5)	270 (2.5)
Pennsylvania	19 (2.8)	266 (4.2)	45 (3.2)	270 (1.9)	36 (3.2)	274 (2.5)
Rhode Island	27 (0.9)	265 (1.1)	37 (1.1)	265 (1.4)	36 (1.0)	265 (1.3)
South Carolina	27 (2.7)	258 (2.6)	47 (3.5)	263 (1.6)	26 (3.1)	259 (2.6)
Tennessee	22 (3.1)	255 (2.8)	47 (4.0)	261 (2.3)	32 (4.0)	255 (2.3)
Texas	41 (3.0)	266 (2.7)	43 (2.7)	264 (2.2)	16 (2.4)	261 (2.6)
Utah	18 (2.2)	274 (2.4)	46 (2.7)	273 (1.1)	36 (2.8)	274 (1.8)
Virginia	19 (2.5)	264 (3.1)	40 (2.6)	267 (1.7)	40 (2.6)	269 (2.2)
West Virginia	16 (2.7)	257 (2.1)	50 (3.7)	258 (1.3)	34 (3.4)	261 (2.3)
Wisconsin	22 (3.1)	277 (3.3)	58 (4.0)	279 (2.2)	20 (3.2)	277 (2.2)
Wyoming	23 (2.6)	276 (2.1)	42 (3.1)	275 (1.5)	35 (2.5)	274 (1.3)
TERRITORIES						
Guam	28 (1.3)	244 (1.7)	24 (1.6)	232 (3.3)	48 (1.5)	228 (1.4)
Virgin Islands	5 (0.5)	223 (3.6)	61 (1.3)	219 (1.5)	34 (1.3)	225 (1.3)

Calculators and Computers

TABLE A.75 | **Teachers' Reports on Permitting the Use of Calculators in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Unrestricted Use		Restricted Use	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	5 (1.2)	219 (6.0)!	95 (1.2)	217 (1.0)
Northeast	10 (4.3)	232 (8.8)!	90 (4.3)	219 (2.3)
Southeast	5 (2.0)	209 (6.3)!	95 (2.0)	207 (2.1)
Central	3 (0.9)	*** (***)	97 (0.9)	224 (1.9)
West	5 (1.8)	211 (5.2)!	95 (1.8)	218 (2.2)
STATES				
Alabama	7 (1.8)	206 (5.0)!	93 (1.8)	207 (1.8)
Arizona	6 (1.2)	221 (5.2)!	94 (1.2)	214 (1.1)
Arkansas	5 (1.1)	200 (4.3)!	95 (1.1)	210 (1.0)
California	11 (2.5)	204 (4.8)!	89 (2.5)	208 (1.8)
Colorado	9 (1.9)	220 (4.7)!	91 (1.9)	220 (1.2)
Connecticut	11 (2.5)	231 (3.4)!	89 (2.5)	227 (1.4)
Delaware	3 (0.2)	*** (***)	97 (0.2)	218 (0.9)
Dist. Columbia	25 (0.8)	190 (1.5)	75 (0.8)	191 (0.9)
Florida	9 (1.7)	212 (3.9)	91 (1.7)	213 (1.3)
Georgia	7 (1.4)	211 (5.5)!	93 (1.4)	214 (1.4)
Hawaii	12 (1.7)	212 (3.7)	88 (1.7)	213 (1.4)
Idaho	6 (1.4)	218 (2.9)!	94 (1.4)	220 (1.1)
Indiana	4 (1.3)	228 (4.1)!	96 (1.3)	219 (1.2)
Iowa	6 (1.3)	229 (2.7)!	94 (1.3)	229 (1.1)
Kentucky	13 (2.4)	220 (2.9)	87 (2.4)	212 (1.2)
Louisiana	8 (1.8)	194 (7.8)!	92 (1.8)	203 (1.8)
Maine	8 (1.9)	233 (3.3)!	92 (1.9)	230 (1.1)
Maryland	15 (2.7)	221 (3.3)	85 (2.7)	218 (1.7)
Massachusetts	9 (2.1)	230 (6.1)!	91 (2.1)	226 (1.3)
Michigan	10 (2.5)	219 (6.7)!	90 (2.5)	219 (2.0)
Minnesota	10 (2.5)	231 (2.5)!	90 (2.5)	227 (1.2)
Mississippi	9 (2.0)	196 (3.6)!	91 (2.0)	200 (1.3)
Missouri	4 (1.6)	214 (9.4)!	96 (1.6)	222 (1.3)
Nebraska	11 (2.6)	237 (3.3)!	89 (2.6)	223 (1.3)
New Hampshire	9 (2.2)	232 (3.3)!	91 (2.2)	229 (1.3)
New Jersey	8 (1.9)	227 (7.0)!	92 (1.9)	227 (1.5)
New Mexico	6 (1.5)	218 (3.2)!	94 (1.5)	212 (1.3)
New York	7 (1.5)	231 (4.5)!	93 (1.5)	216 (1.4)
North Carolina	9 (1.5)	217 (2.6)	91 (1.5)	212 (1.1)
North Dakota	5 (1.3)	227 (2.1)!	95 (1.3)	228 (0.9)
Ohio	3 (1.0)	198 (4.3)!	97 (1.0)	218 (1.2)
Oklahoma	4 (1.3)	221 (4.6)!	96 (1.3)	219 (1.0)
Pennsylvania	4 (1.3)	232 (7.4)!	96 (1.3)	223 (1.4)
Rhode Island	5 (1.3)	209 (4.8)!	95 (1.3)	214 (1.6)
South Carolina	5 (1.2)	216 (5.4)!	95 (1.2)	211 (1.2)
Tennessee	5 (1.1)	208 (5.1)!	95 (1.1)	210 (1.4)
Texas	7 (1.2)	217 (4.0)	93 (1.2)	217 (1.5)
Utah	6 (1.6)	231 (4.6)!	94 (1.6)	223 (1.0)
Virginia	6 (1.5)	214 (4.8)!	94 (1.5)	220 (1.4)
West Virginia	8 (1.7)	217 (3.8)!	92 (1.7)	213 (1.1)
Wisconsin	10 (2.1)	229 (4.4)!	90 (2.1)	228 (1.2)
Wyoming	6 (1.4)	227 (4.3)!	94 (1.4)	224 (1.0)
TERRITORY				
Guam	19 (0.7)	192 (2.6)	81 (0.7)	191 (0.8)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.75 | **Teachers' Reports on Permitting the Use of Calculators in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992			
	Unrestricted Use		Restricted Use	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	30 (2.5)	279 (2.4)	70 (2.5)	262 (1.4)
Northeast	24 (4.0)	283 (9.0)	76 (4.0)	263 (4.6)
Southeast	20 (3.1)	275 (3.0)	80 (3.1)	258 (1.5)
Central	37 (7.4)	286 (3.2)‡	63 (7.4)	268 (3.1)
West	38 (4.7)	275 (3.3)	62 (4.7)	262 (2.7)
STATES				
Alabama	21 (3.3)»	259 (4.2)	79 (3.3)«	250 (1.8)
Arizona	30 (3.4)>	273 (3.1)	70 (3.4)<	261 (1.4)
Arkansas	20 (2.4)»	267 (3.4)	80 (2.4)«	253 (1.5)
California	39 (3.5)	268 (2.2)	61 (3.5)	257 (2.1)
Colorado	46 (2.9)»	276 (2.0)	54 (2.9)«	267 (1.4)>
Connecticut	37 (3.4)>	286 (1.8)	63 (3.4)<	266 (1.6)
Delaware	29 (0.9)»	268 (2.0)	71 (0.9)«	260 (1.1)
Dist. Columbia	45 (1.1)»	239 (1.6)	55 (1.1)«	231 (1.3)
Florida	31 (2.6)»	274 (2.6)	69 (2.6)«	253 (1.6)
Georgia	27 (2.9)»	269 (2.9)	73 (2.9)«	254 (1.5)
Hawaii	25 (0.8)»	269 (2.1)	75 (0.8)«	253 (1.0)>
Idaho	44 (3.0)»	283 (1.4)>	56 (3.0)«	268 (1.2)
Indiana	14 (2.3)	287 (4.4)	86 (2.3)	267 (1.3)
Iowa	31 (4.3)>	289 (1.9)	69 (4.3)<	280 (1.4)>
Kentucky	38 (3.4)»	271 (2.4)	62 (3.4)«	257 (1.3)
Louisiana	19 (3.2)»	251 (3.6)	81 (3.2)«	250 (1.8)
Maine[1]	48 (3.6)	282 (1.8)	52 (3.6)	274 (1.5)
Maryland	33 (3.6)>	280 (2.9)	67 (3.6)<	258 (1.9)
Massachusetts[1]	21 (3.1)	287 (2.9)	79 (3.1)	268 (1.2)
Michigan	48 (3.7)»	271 (2.3)	52 (3.7)«	262 (1.6)
Minnesota	57 (4.3)»	287 (1.4)	43 (4.3)«	274 (1.7)
Mississippi[1]	11 (2.1)	257 (6.0)‡	89 (2.1)	244 (1.2)
Missouri[1]	44 (3.7)	276 (1.9)	56 (3.7)	267 (1.0)
Nebraska	36 (4.3)>	286 (2.1)	64 (4.3)<	273 (1.3)
New Hampshire	31 (2.9)>	283 (2.4)	69 (2.9)<	275 (1.3)>
New Jersey	20 (3.5)>	278 (4.7)	80 (3.5)<	270 (1.7)
New Mexico	27 (3.1)>	263 (1.8)	73 (3.1)<	258 (1.1)
New York	18 (2.1)»	274 (4.4)>	82 (2.1)«	264 (2.3)
North Carolina	19 (2.9)>	264 (2.3)	81 (2.9)<	256 (1.5)>
North Dakota	39 (3.1)»	288 (1.4)	61 (3.1)«	280 (1.7)
Ohio	21 (2.8)	277 (3.9)	79 (2.8)	267 (1.7)
Oklahoma	14 (3.2)	272 (4.8)‡	86 (3.2)	267 (1.3)>
Pennsylvania	25 (3.4)>	278 (3.4)	75 (3.4)<	268 (1.7)
Rhode Island	25 (0.9)»	274 (1.5)»	75 (0.9)«	263 (0.9)>
South Carolina[1]	20 (2.6)	277 (2.6)	80 (2.6)	256 (1.4)
Tennessee[1]	12 (2.6)	272 (3.6)‡	88 (2.6)	256 (1.3)
Texas	38 (3.5)»	271 (2.8)	62 (3.5)«	260 (1.6)>
Utah[1]	58 (2.8)	279 (1.2)	42 (2.8)	267 (1.4)
Virginia	20 (2.4)	276 (3.2)	80 (2.4)	265 (1.4)
West Virginia	24 (2.6)»	271 (2.7)	76 (2.6)«	255 (1.1)
Wisconsin	38 (4.2)	284 (1.9)	62 (4.2)	275 (2.1)
Wyoming	43 (3.7)	280 (1.4)	57 (3.7)	271 (1.1)
TERRITORIES				
Guam	17 (0.8)«	254 (3.1)»	83 (0.8)»	231 (1.1)
Virgin Islands	15 (0.7)»	225 (2.5)	85 (0.7)«	222 (1.3)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.76 | **Teachers' Reports on Permitting the Use of Calculators on Mathematics Tests**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Yes		No	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	5 (1.2)	227 (4.4)!	95 (1.2)	216 (1.1)
Northeast	9 (4.0)	236 (7.8)!	91 (4.0)	219 (2.7)
Southeast	2 (0.9)	*** (***)	98 (0.9)	208 (2.0)
Central	5 (2.8)	*** (***)	95 (2.8)	224 (2.2)
West	6 (1.9)	*** (***)	94 (1.9)	217 (2.0)
STATES				
Alabama	2 (0.8)	*** (***)	98 (0.8)	207 (1.6)
Arizona	4 (1.2)	217 (3.8)!	96 (1.2)	214 (1.1)
Arkansas	3 (1.2)	208 (9.6)!	97 (1.2)	209 (0.9)
California	12 (2.2)	214 (3.9)	88 (2.2)	207 (1.7)
Colorado	9 (2.2)	227 (3.0)!	91 (2.2)	219 (1.2)
Connecticut	7 (1.8)	228 (3.7)!	93 (1.8)	227 (1.4)
Delaware	3 (0.6)	*** (***)	97 (0.6)	217 (0.9)
Dist. Columbia	32 (1.1)	190 (1.4)	68 (1.1)	192 (1.1)
Florida	5 (1.2)	212 (4.1)!	95 (1.2)	212 (1.3)
Georgia	4 (1.1)	217 (6.5)!	96 (1.1)	214 (1.4)
Hawaii	14 (1.7)	211 (3.1)	86 (1.7)	213 (1.5)
Idaho	8 (2.1)	223 (3.1)!	92 (2.1)	220 (1.1)
Indiana	1 (0.6)	*** (***)	99 (0.6)	219 (1.2)
Iowa	2 (1.0)	*** (***)	98 (1.0)	229 (1.1)
Kentucky	13 (2.5)	213 (2.7)	87 (2.5)	213 (1.2)
Louisiana	7 (2.0)	200 (4.0)!	93 (2.0)	203 (1.7)
Maine	9 (1.9)	235 (3.9)!	91 (1.9)	230 (1.1)
Maryland	20 (2.9)	222 (3.1)	80 (2.9)	217 (1.6)
Massachusetts	5 (1.3)	242 (5.5)!	95 (1.3)	226 (1.2)
Michigan	19 (3.2)	214 (4.5)	81 (3.2)	220 (2.0)
Minnesota	11 (2.6)	234 (2.3)!	89 (2.6)	226 (1.3)
Mississippi	8 (2.4)	192 (7.0)!	92 (2.4)	200 (1.3)
Missouri	3 (1.2)	216 (6.2)!	97 (1.2)	222 (1.4)
Nebraska	3 (1.0)	*** (***)	97 (1.0)	225 (1.4)
New Hampshire	6 (1.7)	231 (5.1)!	94 (1.7)	229 (1.2)
New Jersey	4 (1.5)	241 (9.7)!	96 (1.5)	226 (1.4)
New Mexico	2 (0.9)	*** (***)	98 (0.9)	212 (1.3)
New York	4 (1.2)	222 (6.2)!	96 (1.2)	217 (1.3)
North Carolina	6 (1.4)	213 (4.5)!	94 (1.4)	212 (1.2)
North Dakota	2 (1.1)	*** (***)	98 (1.1)	228 (0.9)
Ohio	4 (1.8)	226 (5.5)!	96 (1.8)	217 (1.3)
Oklahoma	0 (0.3)	*** (***)	100 (0.3)	220 (1.1)
Pennsylvania	4 (1.5)	236 (6.8)!	96 (1.5)	222 (1.5)
Rhode Island	4 (1.3)	230 (4.1)!	96 (1.3)	213 (1.7)
South Carolina	3 (1.0)	210(10.1)!	97 (1.0)	211 (1.2)
Tennessee	2 (0.7)	*** (***)	98 (0.7)	210 (1.4)
Texas	6 (1.4)	224 (2.8)!	94 (1.4)	217 (1.6)
Utah	6 (1.5)	230 (4.6)!	94 (1.5)	223 (1.0)
Virginia	4 (1.2)	226 (5.9)!	96 (1.2)	219 (1.3)
West Virginia	6 (1.8)	218 (2.4)!	94 (1.8)	213 (1.2)
Wisconsin	7 (1.8)	232 (3.8)!	93 (1.8)	228 (1.2)
Wyoming	8 (1.6)	229 (2.2)!	92 (1.6)	224 (1.0)
TERRITORY				
Guam	6 (0.5)	190 (3.5)	94 (0.5)	192 (0.9)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.76 | **Teachers' Reports on Permitting the Use of Calculators on Mathematics Tests (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992			
	Yes		No	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	49 (3.1)	275 (1.9)	51 (3.1)	261 (1.6)
Northeast	46 (6.8)	279 (5.1)	54 (6.8)	259 (5.1)
Southeast	36 (5.7)	271 (2.1)	64 (5.7)	256 (2.2)
Central	62 (6.9)	278 (4.3)	38 (6.9)	271 (3.2)‹
West	53 (5.4)	272 (2.8)	47 (5.4)	263 (3.0)
STATES				
Alabama	41 (4.4)»	259 (2.7)	59 (4.4)«	247 (2.1)
Arizona	45 (4.2)»	271 (2.0)	55 (4.2)«	259 (1.8)
Arkansas	34 (3.7)»	264 (1.9)	66 (3.7)«	251 (1.6)<
California	57 (3.6)	266 (1.9)	43 (3.6)	256 (2.9)
Colorado	65 (3.1)»	276 (1.4)	35 (3.1)«	263 (1.7)
Connecticut	56 (3.5)>	284 (1.4)	44 (3.5)<	260 (2.5)
Delaware	50 (0.9)»	267 (1.3)	50 (0.9)«	257 (1.4)
Dist. Columbia	60 (1.1)»	239 (1.5)	40 (1.1)«	228 (1.7)
Florida	44 (3.3)»	271 (1.9)	56 (3.3)«	250 (1.7)
Georgia	46 (3.7)>	263 (2.1)	54 (3.7)<	254 (1.7)
Hawaii	38 (1.0)»	268 (1.4)	62 (1.0)«	251 (0.9)
Idaho	62 (2.9)»	278 (1.0)>	38 (2.9)«	269 (1.4)
Indiana	31 (3.5)»	275 (2.0)	69 (3.5)«	267 (1.6)
Iowa	64 (4.0)»	286 (1.2)>	36 (4.0)«	278 (2.0)
Kentucky	64 (3.2)»	267 (1.7)	36 (3.2)«	255 (1.8)
Louisiana	29 (3.9)>	254 (3.1)	71 (3.9)<	249 (1.9)
Maine[1]	71 (4.1)	281 (1.3)	29 (4.1)	272 (2.1)
Maryland	54 (4.0)»	276 (2.2)	46 (4.0)«	253 (2.4)
Massachusetts[1]	29 (3.7)	280 (2.4)	71 (3.7)	269 (1.6)
Michigan	74 (3.3)»	269 (2.0)	26 (3.3)«	259 (3.2)
Minnesota	71 (3.6)»	284 (1.3)	29 (3.6)«	275 (2.4)
Mississippi[1]	20 (3.2)	254 (4.4)	80 (3.2)	243 (1.3)
Missouri[1]	76 (4.0)	273 (1.3)	24 (4.0)	265 (2.0)
Nebraska	64 (4.7)»	280 (1.5)	36 (4.7)«	274 (1.8)
New Hampshire	57 (3.5)»	279 (1.2)	43 (3.5)«	276 (1.7)>
New Jersey	41 (4.1)»	280 (2.7)	59 (4.1)«	266 (2.3)
New Mexico	40 (3.1)»	265 (1.3)>	60 (3.1)«	255 (1.2)
New York	24 (2.9)>	278 (3.3)»	76 (2.9)<	262 (2.6)
North Carolina	34 (3.2)»	262 (1.9)	66 (3.2)«	255 (1.6)>
North Dakota	59 (3.5)»	284 (1.3)	41 (3.5)«	281 (2.0)
Ohio	44 (4.3)	273 (2.5)	56 (4.3)	266 (2.2)
Oklahoma	23 (3.2)	272 (2.3)	77 (3.2)	266 (1.6)
Pennsylvania	42 (3.8)»	277 (2.3)	58 (3.8)«	266 (1.7)
Rhode Island	42 (0.9)»	269 (1.2)	58 (0.9)«	262 (1.0)>
South Carolina[1]	40 (3.0)	270 (1.7)	60 (3.0)	254 (1.6)
Tennessee[1]	22 (3.4)	268 (3.0)	78 (3.4)	255 (1.6)
Texas	54 (3.3)»	270 (2.2)	46 (3.3)«	257 (1.6)
Utah[1]	67 (3.3)	277 (1.2)	33 (3.3)	267 (1.8)
Virginia	34 (3.4)	275 (2.4)	66 (3.4)	263 (1.5)
West Virginia	39 (3.4)»	266 (1.6)	61 (3.4)«	254 (1.3)
Wisconsin	64 (5.5)>	281 (1.9)	36 (5.5)<	273 (3.2)
Wyoming	66 (3.2)»	275 (1.2)	34 (3.2)«	274 (1.5)
TERRITORIES				
Guam	7 (0.7)<	264 (4.2)»	93 (0.7)>	233 (1.1)
Virgin Islands	34 (0.9)»	225 (1.3)	66 (0.9)«	221 (1.4)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.77 | **Teachers' Reports on Students' Access to School-Owned Calculators for Mathematics Schoolwork**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Yes		No	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	62 (3.2)	221 (1.4)	38 (3.2)	211 (1.9)
Northeast	63 (7.0)	224 (3.4)	37 (7.0)	215 (4.2)
Southeast	49 (4.9)	212 (3.1)	51 (4.9)	203 (2.7)
Central	66 (8.0)	225 (1.7)	34 (8.0)	221 (4.7)!
West	69 (5.1)	222 (2.9)	31 (5.1)	209 (3.1)
STATES				
Alabama	34 (3.9)	209 (3.0)	66 (3.9)	206 (1.6)
Arizona	55 (3.7)	218 (1.6)	45 (3.7)	210 (1.8)
Arkansas	39 (4.4)	211 (1.6)	61 (4.4)	208 (1.4)
California	86 (3.0)	208 (1.8)	14 (3.0)	201 (3.5)!
Colorado	76 (3.5)	222 (1.3)	24 (3.5)	214 (2.1)
Connecticut	81 (3.0)	230 (1.3)	19 (3.0)	217 (3.7)
Delaware	72 (0.8)	218 (0.9)	28 (0.8)	217 (1.9)
Dist. Columbia	89 (0.5)	192 (0.8)	11 (0.5)	185 (2.3)
Florida	66 (3.4)	215 (1.3)	34 (3.4)	208 (2.5)
Georgia	53 (3.8)	217 (2.0)	47 (3.8)	211 (2.0)
Hawaii	81 (3.1)	214 (1.5)	19 (3.1)	209 (2.8)
Idaho	76 (3.7)	221 (1.2)	24 (3.7)	218 (1.4)
Indiana	63 (3.9)	221 (1.4)	37 (3.9)	217 (1.6)
Iowa	75 (3.4)	231 (1.1)	25 (3.4)	224 (2.0)
Kentucky	79 (3.7)	214 (1.2)	21 (3.7)	212 (2.1)
Louisiana	31 (4.1)	212 (2.3)	69 (4.1)	198 (2.0)
Maine	71 (4.2)	232 (1.2)	29 (4.2)	227 (2.3)
Maryland	83 (2.4)	221 (1.4)	17 (2.4)	204 (3.4)
Massachusetts	62 (4.1)	231 (1.6)	38 (4.1)	219 (2.2)
Michigan	94 (1.5)	219 (1.8)	6 (1.5)	217 (4.9)!
Minnesota	83 (3.2)	227 (1.3)	17 (3.2)	227 (2.0)!
Mississippi	44 (4.7)	199 (2.3)	56 (4.7)	200 (1.8)
Missouri	61 (4.4)	226 (1.4)	39 (4.4)	215 (2.3)
Nebraska	69 (4.2)	227 (1.7)	31 (4.2)	221 (2.3)
New Hampshire	63 (4.2)	231 (1.4)	37 (4.2)	225 (1.9)
New Jersey	58 (4.7)	233 (1.7)	42 (4.7)	219 (2.6)
New Mexico	37 (3.6)	215 (1.9)	63 (3.6)	210 (1.5)
New York	32 (4.4)	222 (2.6)	68 (4.4)	215 (1.7)
North Carolina	78 (3.2)	213 (1.1)	22 (3.2)	209 (3.0)
North Dakota	54 (4.0)	229 (1.0)	46 (4.0)	227 (1.4)
Ohio	66 (4.1)	218 (1.6)	34 (4.1)	215 (2.3)
Oklahoma	28 (4.0)	224 (1.8)	72 (4.0)	218 (1.1)
Pennsylvania	69 (4.0)	226 (1.6)	31 (4.0)	217 (2.9)
Rhode Island	57 (4.7)	219 (2.3)	43 (4.7)	208 (2.6)
South Carolina	70 (3.4)	212 (1.4)	30 (3.4)	210 (1.9)
Tennessee	29 (3.7)	215 (2.6)	71 (3.7)	207 (1.7)
Texas	71 (4.6)	220 (1.8)	29 (4.6)	212 (3.3)
Utah	61 (3.7)	224 (1.2)	39 (3.7)	221 (1.8)
Virginia	62 (3.5)	223 (1.5)	38 (3.5)	213 (2.3)
West Virginia	66 (4.0)	213 (1.4)	34 (4.0)	213 (2.3)
Wisconsin	79 (3.7)	228 (1.4)	21 (3.7)	227 (2.2)
Wyoming	83 (2.9)	225 (1.1)	17 (2.9)	222 (2.6)
TERRITORY				
Guam	5 (0.6)	194 (4.0)	95 (0.6)	191 (0.9)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.78 | **Teachers' Reports on Students' Access to School-Owned Four-Function and Scientific Calculators**

PUBLIC SCHOOLS	Grade 8 - 1992, 4-Function				Grade 8 - 1992, Scientific			
	Yes		No		Yes		No	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	66 (3.4)	268 (1.8)	34 (3.4)	268 (1.9)	37 (3.3)	272 (2.4)	63 (3.3)	266 (1.4)
Northeast	69 (7.5)	267 (5.2)	31 (7.5)	272 (4.2)!	40 (9.8)	274 (5.2)!	60 (9.8)	263 (4.5)
Southeast	58 (6.5)	261 (1.3)	42 (6.5)	261 (2.9)	33 (3.3)	265 (2.8)	67 (3.3)	261 (2.0)
Central	71 (6.5)	275 (2.7)	29 (6.5)	275 (5.5)!	34 (8.5)	274 (6.2)!	66 (8.5)	276 (3.0)
West	67 (6.1)	268 (2.4)	33 (6.1)	266 (3.5)!	40 (5.0)	274 (4.0)	60 (5.0)	265 (2.2)
STATES								
Alabama	49 (4.7)	252 (2.9)	51 (4.7)	251 (1.8)	20 (3.8)	260 (4.1)	80 (3.8)	250 (1.8)
Arizona	70 (4.0)	266 (1.6)	30 (4.0)	261 (2.8)	21 (3.0)	272 (2.6)	79 (3.0)	263 (1.6)
Arkansas	61 (4.3)	257 (1.6)	39 (4.3)	254 (2.2)	20 (3.3)	260 (3.4)	80 (3.3)	256 (1.3)
California	78 (3.5)	261 (1.6)	22 (3.5)	262 (4.2)	25 (4.2)	261 (3.6)	75 (4.2)	261 (2.1)
Colorado	64 (3.8)	270 (1.4)	36 (3.8)	274 (2.2)	24 (3.7)	278 (2.6)	76 (3.7)	270 (1.4)
Connecticut	85 (2.6)	274 (1.3)	15 (2.6)	265 (5.2)	37 (3.7)	279 (2.6)	63 (3.7)	271 (2.0)
Delaware	68 (0.7)	260 (1.3)	32 (0.7)	264 (1.3)	29 (0.6)	263 (2.1)	71 (0.6)	262 (1.1)
Dist. Columbia	71 (1.4)	233 (1.4)	29 (1.4)	229 (2.5)	84 (0.9)	235 (1.1)	16 (0.9)	236 (3.3)
Florida	64 (4.1)	261 (1.9)	36 (4.1)	256 (2.6)	41 (3.8)	267 (2.4)	59 (3.8)	256 (2.0)
Georgia	84 (2.8)	257 (1.3)	16 (2.8)	258 (3.8)	26 (4.0)	270 (3.2)	74 (4.0)	257 (1.6)
Hawaii	78 (0.7)	257 (1.0)	22 (0.7)	260 (1.7)	41 (0.9)	262 (1.2)	59 (0.9)	255 (1.2)
Idaho	56 (3.3)	274 (1.2)	44 (3.3)	276 (1.6)	38 (3.4)	280 (1.4)	62 (3.4)	272 (1.2)
Indiana	72 (3.6)	270 (1.5)	28 (3.6)	269 (2.7)	15 (2.9)	282 (4.1)	85 (2.9)	268 (1.3)
Iowa	70 (4.0)	282 (1.2)	30 (4.0)	286 (2.3)	31 (4.4)	285 (2.1)	69 (4.4)	283 (1.4)
Kentucky	77 (3.3)	262 (1.4)	23 (3.3)	263 (2.9)	35 (4.6)	265 (2.5)	65 (4.6)	261 (1.3)
Louisiana	49 (4.7)	254 (2.9)	51 (4.7)	246 (1.8)	20 (3.3)	251 (3.6)	80 (3.3)	250 (2.0)
Maine	88 (2.3)	278 (1.4)	12 (2.3)	282 (2.9)	41 (4.6)	280 (1.9)	59 (4.6)	278 (1.3)
Maryland	81 (3.5)	268 (1.8)	19 (3.5)	259 (4.6)	50 (3.4)	272 (2.5)	50 (3.4)	261 (2.5)
Massachusetts	59 (3.8)	274 (1.9)	41 (3.8)	271 (2.0)	17 (3.7)	281 (3.6)!	83 (3.7)	269 (1.3)
Michigan	83 (2.9)	266 (1.4)	17 (2.9)	271 (4.1)	40 (4.5)	269 (2.8)	60 (4.5)	267 (1.9)
Minnesota	64 (4.3)	281 (1.5)	36 (4.3)	281 (1.9)	33 (4.2)	286 (2.2)	67 (4.2)	279 (1.3)
Mississippi	40 (4.1)	245 (2.3)	60 (4.1)	246 (1.8)	7 (2.4)	245 (9.7)!	93 (2.4)	245 (1.5)
Missouri	70 (3.7)	271 (1.4)	30 (3.7)	271 (1.7)	26 (4.0)	276 (2.2)	74 (4.0)	270 (1.3)
Nebraska	66 (3.6)	275 (1.6)	34 (3.6)	280 (1.8)	30 (4.4)	282 (2.8)	70 (4.4)	275 (1.2)
New Hampshire	75 (3.7)	278 (1.2)	25 (3.7)	277 (1.9)	24 (3.8)	280 (2.1)	76 (3.8)	276 (1.0)
New Jersey	71 (4.7)	277 (1.9)	29 (4.7)	261 (5.0)	42 (4.8)	272 (2.6)	58 (4.8)	273 (2.2)
New Mexico	71 (3.5)	261 (1.0)	29 (3.5)	256 (2.1)	19 (3.2)	262 (1.7)	81 (3.2)	258 (1.2)
New York	70 (3.8)	270 (2.6)	30 (3.8)	257 (4.9)	8 (2.4)	269 (8.4)!	92 (2.4)	266 (2.4)
North Carolina	74 (3.6)	258 (1.4)	26 (3.6)	255 (2.5)	33 (3.6)	264 (2.1)	67 (3.6)	255 (1.6)
North Dakota	45 (3.7)	283 (1.5)	55 (3.7)	282 (1.8)	26 (3.2)	288 (1.7)	74 (3.2)	281 (1.5)
Ohio	69 (4.2)	269 (1.9)	31 (4.2)	268 (2.0)	38 (4.8)	269 (2.6)	62 (4.8)	270 (2.4)
Oklahoma	43 (4.1)	267 (2.0)	57 (4.1)	267 (2.0)	14 (2.9)	265 (4.1)!	86 (2.9)	268 (1.5)
Pennsylvania	64 (3.5)	271 (1.7)	36 (3.5)	270 (2.8)	31 (4.1)	271 (2.9)	69 (4.1)	270 (2.1)
Rhode Island	71 (0.9)	267 (0.9)	29 (0.9)	260 (1.7)	29 (1.0)	263 (1.1)	71 (1.0)	266 (1.1)
South Carolina	77 (3.0)	260 (1.3)	23 (3.0)	260 (2.7)	29 (3.6)	265 (2.8)	71 (3.6)	259 (1.5)
Tennessee	41 (4.0)	259 (2.4)	59 (4.0)	257 (1.8)	18 (3.5)	257 (3.1)	82 (3.5)	258 (1.8)
Texas	70 (3.5)	265 (1.5)	30 (3.5)	263 (2.5)	47 (4.3)	271 (2.7)	53 (4.3)	260 (1.6)
Utah	38 (3.8)	271 (1.8)	62 (3.8)	275 (1.3)	22 (2.7)	279 (1.9)	78 (2.7)	273 (1.0)
Virginia	76 (3.4)	268 (1.5)	24 (3.4)	264 (2.7)	26 (3.6)	272 (2.3)	74 (3.6)	266 (1.4)
West Virginia	74 (3.7)	258 (1.0)	26 (3.7)	259 (2.4)	22 (3.6)	263 (2.4)	78 (3.6)	258 (1.2)
Wisconsin	58 (4.7)	276 (1.8)	42 (4.7)	281 (2.3)	41 (5.6)	281 (3.5)	59 (5.6)	278 (1.6)
Wyoming	80 (2.9)	274 (1.0)	20 (2.9)	275 (2.0)	34 (4.5)	280 (1.9)	66 (4.5)	272 (1.1)
TERRITORIES								
Guam	79 (1.3)	237 (1.2)	21 (1.3)	228 (2.6)	10 (0.5)	229 (2.4)	90 (0.5)	236 (1.3)
Virgin Islands	49 (1.2)	226 (1.3)	51 (1.2)	219 (1.6)	20 (0.9)	212 (1.9)	80 (0.9)	222 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.79 | **Students' Reports on Having a Calculator to Use for Mathematics Schoolwork**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Yes		No	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	47 (1.4)	219 (1.0)	53 (1.4)	217 (0.9)
Northeast	51 (3.2)	226 (2.4)	49 (3.2)	220 (2.4)
Southeast	43 (2.6)	207 (2.6)	57 (2.6)	210 (1.8)
Central	48 (2.4)	224 (2.3)	52 (2.4)	221 (2.4)
West	46 (3.0)	217 (2.0)	54 (3.0)	218 (1.6)
STATES				
Alabama	47 (2.1)	206 (1.7)	53 (2.1)	208 (1.8)
Arizona	43 (1.4)	214 (1.4)	57 (1.4)	214 (1.4)
Arkansas	38 (1.5)	207 (1.3)	62 (1.5)	210 (1.2)
California	55 (2.0)	209 (2.1)	45 (2.0)	206 (1.7)
Colorado	51 (1.9)	220 (1.2)	49 (1.9)	220 (1.3)
Connecticut	50 (1.8)	227 (1.5)	50 (1.8)	225 (1.4)
Delaware	52 (1.3)	217 (1.1)	48 (1.3)	217 (1.1)
Dist. Columbia	71 (0.8)	193 (0.8)	29 (0.8)	190 (1.1)
Florida	39 (2.1)	212 (2.0)	61 (2.1)	213 (1.6)
Georgia	42 (1.6)	212 (2.0)	58 (1.6)	217 (1.2)
Hawaii	58 (1.5)	213 (1.5)	42 (1.5)	213 (1.6)
Idaho	48 (2.4)	221 (1.2)	52 (2.4)	220 (1.1)
Indiana	39 (1.5)	220 (1.4)	61 (1.5)	220 (1.2)
Iowa	46 (1.8)	230 (1.3)	54 (1.8)	228 (1.1)
Kentucky	66 (1.4)	215 (1.2)	34 (1.4)	211 (1.6)
Louisiana	45 (1.7)	205 (1.8)	55 (1.7)	202 (1.6)
Maine	50 (2.2)	231 (1.3)	50 (2.2)	231 (1.4)
Maryland	55 (1.7)	218 (1.9)	45 (1.7)	215 (1.3)
Massachusetts	44 (2.3)	229 (1.6)	56 (2.3)	223 (1.6)
Michigan	55 (1.7)	218 (1.8)	45 (1.7)	220 (2.1)
Minnesota	55 (1.7)	229 (1.2)	45 (1.7)	226 (1.1)
Mississippi	50 (1.9)	200 (1.6)	50 (1.9)	200 (1.4)
Missouri	41 (1.7)	222 (1.9)	59 (1.7)	221 (1.3)
Nebraska	46 (1.7)	226 (1.7)	54 (1.7)	223 (1.3)
New Hampshire	43 (1.8)	230 (1.5)	57 (1.8)	228 (1.3)
New Jersey	49 (2.3)	229 (1.8)	51 (2.3)	224 (1.7)
New Mexico	34 (1.3)	211 (2.1)	66 (1.3)	213 (1.6)
New York	39 (2.1)	217 (1.9)	61 (2.1)	218 (1.5)
North Carolina	51 (1.4)	213 (1.4)	49 (1.4)	211 (1.2)
North Dakota	42 (2.3)	227 (1.3)	58 (2.3)	228 (0.9)
Ohio	49 (1.7)	218 (1.4)	51 (1.7)	218 (1.4)
Oklahoma	34 (1.4)	218 (1.6)	66 (1.4)	220 (1.1)
Pennsylvania	53 (1.7)	224 (1.6)	47 (1.7)	223 (1.6)
Rhode Island	37 (2.0)	213 (2.1)	63 (2.0)	215 (1.6)
South Carolina	45 (1.4)	210 (1.3)	55 (1.4)	212 (1.4)
Tennessee	36 (1.3)	209 (1.5)	64 (1.3)	210 (1.5)
Texas	50 (1.7)	218 (1.5)	50 (1.7)	217 (1.6)
Utah	44 (1.9)	223 (1.5)	56 (1.9)	223 (1.2)
Virginia	41 (1.5)	220 (1.6)	59 (1.5)	220 (1.6)
West Virginia	47 (1.6)	214 (1.3)	53 (1.6)	214 (1.2)
Wisconsin	58 (2.1)	228 (1.2)	42 (2.1)	228 (1.5)
Wyoming	46 (2.0)	225 (1.1)	54 (2.0)	224 (1.2)
TERRITORY				
Guam	39 (1.2)	186 (1.6)	61 (1.2)	195 (1.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.79 | **Students' Reports on Having a Calculator to Use for Mathematics Schoolwork (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992			
	Yes		No	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	81 (1.0)	269 (1.1)	19 (1.0)	255 (1.3)
Northeast	78 (2.6)	270 (3.4)	22 (2.6)	262 (4.2)
Southeast	75 (2.1)	261 (1.2)	25 (2.1)	248 (2.4)
Central	87 (1.7)	275 (2.4)	13 (1.7)	261 (2.0)
West	82 (2.1)	270 (2.3)	18 (2.1)	254 (2.1)
STATES				
Alabama	77 (1.4)	253 (1.8)	23 (1.4)	245 (2.2)
Arizona	75 (1.5)	268 (1.3)	25 (1.5)	256 (2.0)
Arkansas	74 (1.2)	258 (1.3)	26 (1.2)	248 (1.8)
California	81 (1.2)	264 (1.7)	19 (1.2)	244 (2.3)
Colorado	85 (1.0)	274 (1.1)	15 (1.0)	261 (1.9)
Connecticut	81 (1.3)	277 (1.0)	19 (1.3)	258 (2.5)
Delaware	83 (0.6)	265 (1.2)	17 (0.6)	250 (2.0)
Dist. Columbia	77 (1.0)	236 (1.0)	23 (1.0)	229 (2.3)
Florida	74 (1.4)	264 (1.4)	26 (1.4)	248 (2.2)
Georgia	78 (1.3)	261 (1.2)	22 (1.3)	251 (1.8)
Hawaii	74 (1.1)	261 (1.1)	26 (1.1)	245 (1.6)
Idaho	84 (0.9)	276 (0.8)	16 (0.9)	264 (1.7)
Indiana	81 (1.1)	271 (1.2)	19 (1.1)	262 (2.1)
Iowa	88 (1.4)	284 (1.0)	12 (1.4)	275 (2.5)
Kentucky	86 (0.9)	264 (1.2)	14 (0.9)	249 (2.3)
Louisiana	74 (1.5)	252 (1.8)	26 (1.5)	243 (1.9)
Maine	89 (0.9)	279 (1.0)	11 (0.9)	267 (2.8)
Maryland	81 (1.4)	268 (1.2)	19 (1.4)	251 (2.1)
Massachusetts	73 (1.5)	276 (1.1)	27 (1.5)	262 (1.7)
Michigan	87 (1.0)	269 (1.4)	13 (1.0)	252 (2.3)
Minnesota	90 (1.1)	283 (0.9)	10 (1.1)	271 (2.5)
Mississippi	67 (1.4)	248 (1.3)	33 (1.4)	242 (1.7)
Missouri	89 (1.1)	272 (1.2)	11 (1.1)	258 (2.4)
Nebraska	90 (1.0)	278 (1.2)	10 (1.0)	273 (2.2)
New Hampshire	86 (1.1)	279 (1.0)	14 (1.1)	270 (2.1)
New Jersey	80 (1.3)	275 (1.4)	20 (1.3)	256 (3.0)
New Mexico	78 (1.4)	261 (0.9)	22 (1.4)	251 (1.5)
New York	72 (1.4)	270 (1.7)	28 (1.4)	256 (3.1)
North Carolina	77 (1.0)	260 (1.1)	23 (1.0)	250 (2.1)
North Dakota	88 (1.4)	283 (1.2)	12 (1.4)	278 (2.7)
Ohio	83 (1.1)	270 (1.6)	17 (1.1)	256 (2.7)
Oklahoma	73 (1.6)	269 (1.2)	27 (1.6)	265 (1.6)
Pennsylvania	79 (1.4)	274 (1.4)	21 (1.4)	261 (2.3)
Rhode Island	80 (1.0)	267 (0.9)	20 (1.0)	257 (2.2)
South Carolina	79 (1.1)	263 (1.0)	21 (1.1)	251 (2.0)
Tennessee	77 (1.6)	261 (1.5)	23 (1.6)	248 (2.0)
Texas	80 (1.2)	267 (1.5)	20 (1.2)	252 (1.9)
Utah	84 (0.9)	275 (0.8)	16 (0.9)	267 (1.8)
Virginia	80 (1.0)	269 (1.2)	20 (1.0)	259 (2.0)
West Virginia	80 (1.4)	260 (1.1)	20 (1.4)	252 (1.8)
Wisconsin	89 (1.1)	279 (1.3)	11 (1.1)	266 (3.9)
Wyoming	88 (1.0)	276 (0.9)	12 (1.0)	267 (2.4)
TERRITORIES				
Guam	60 (1.2)	240 (1.5)	40 (1.2)	228 (1.4)
Virgin Islands	62 (1.1)	225 (1.3)	38 (1.1)	217 (1.5)

TABLE A.80 | **Teachers' Reports on the Frequency of Calculator Use in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	18 (2.3)	222 (3.1)	34 (2.1)	220 (1.6)	48 (2.9)	213 (1.5)
Northeast	22 (4.8)	225 (5.5)!	21 (4.7)	220 (7.5)!	57 (6.6)	216 (3.7)
Southeast	17 (4.6)	212 (7.1)!	26 (3.3)	211 (2.8)	57 (4.8)	205 (2.4)
Central	13 (5.1)	232 (5.2)!	45 (3.4)	224 (1.9)	41 (6.8)	221 (2.7)
West	21 (3.8)	221 (6.8)	40 (5.3)	221 (2.9)	39 (4.4)	213 (2.6)
STATES						
Alabama	22 (3.4)	213 (2.9)	33 (3.6)	208 (2.8)	45 (4.6)	204 (1.8)
Arizona	15 (2.7)	217 (2.9)	27 (2.7)	219 (2.1)	58 (3.2)	211 (1.6)
Arkansas	8 (2.4)	213 (4.0)!	25 (3.3)	211 (2.3)	67 (3.3)	208 (1.2)
California	34 (4.1)	215 (2.9)	39 (3.4)	204 (2.3)	27 (3.4)	202 (3.3)
Colorado	31 (2.7)	223 (2.1)	38 (2.8)	221 (2.1)	31 (3.1)	217 (2.1)
Connecticut	29 (3.3)	234 (2.1)	40 (3.4)	228 (1.7)	31 (3.6)	221 (3.0)
Delaware	24 (0.9)	220 (1.4)	38 (0.8)	218 (1.6)	38 (0.7)	215 (1.6)
Dist. Columbia	59 (1.0)	192 (1.0)	28 (0.9)	191 (1.5)	13 (0.6)	185 (2.1)
Florida	21 (2.4)	218 (2.5)	36 (3.0)	213 (1.8)	43 (3.4)	209 (2.0)
Georgia	14 (3.0)	220 (5.0)!	33 (3.1)	215 (2.6)	52 (4.6)	211 (1.7)
Hawaii	35 (2.8)	217 (1.9)	40 (2.7)	212 (1.9)	25 (3.0)	208 (2.1)
Idaho	28 (3.2)	223 (1.9)	39 (3.3)	221 (1.5)	33 (3.6)	218 (1.3)
Indiana	12 (2.1)	226 (3.7)	31 (3.2)	221 (1.5)	57 (4.0)	217 (1.4)
Iowa	18 (2.6)	233 (2.1)	44 (3.8)	230 (1.7)	38 (3.8)	226 (1.7)
Kentucky	47 (3.8)	216 (1.5)	36 (3.9)	211 (1.6)	16 (3.1)	210 (2.8)!
Louisiana	18 (3.2)	207 (3.7)	20 (2.5)	211 (2.3)	62 (4.2)	199 (1.9)
Maine	23 (3.2)	233 (2.6)	41 (3.6)	232 (1.3)	35 (3.8)	227 (1.8)
Maryland	39 (3.8)	224 (2.2)	36 (3.0)	220 (2.1)	25 (3.1)	206 (2.9)
Massachusetts	18 (2.6)	236 (2.3)	35 (3.4)	231 (2.2)	48 (4.1)	220 (1.7)
Michigan	38 (4.1)	219 (2.7)	43 (3.7)	219 (2.7)	19 (3.0)	218 (3.5)
Minnesota	28 (3.7)	230 (2.5)	42 (3.8)	226 (1.6)	30 (3.4)	225 (1.6)
Mississippi	16 (3.1)	209 (3.1)!	29 (3.5)	201 (2.8)	55 (4.4)	197 (1.8)
Missouri	14 (2.6)	228 (4.0)	32 (3.5)	224 (1.8)	54 (3.9)	219 (1.9)
Nebraska	22 (3.2)	232 (2.5)	42 (4.7)	225 (2.2)	36 (4.0)	221 (1.5)
New Hampshire	25 (3.4)	237 (2.2)	30 (3.5)	229 (1.9)	44 (3.8)	225 (1.5)
New Jersey	26 (3.3)	236 (2.7)	28 (3.3)	231 (2.5)	46 (4.4)	220 (2.6)
New Mexico	9 (2.5)	211 (2.2)!	25 (3.0)	215 (2.1)	66 (3.5)	211 (1.7)
New York	14 (2.0)	226 (3.1)	19 (3.1)	222 (3.3)	67 (3.9)	214 (1.6)
North Carolina	21 (2.4)	213 (2.9)	39 (2.9)	213 (2.0)	40 (3.4)	211 (1.8)
North Dakota	14 (2.6)	229 (1.9)	38 (4.5)	226 (1.4)	48 (4.6)	229 (1.5)
Ohio	19 (3.2)	222 (3.4)	35 (3.8)	219 (1.8)	46 (4.3)	214 (1.9)
Oklahoma	8 (2.2)	227 (4.3)!	16 (2.9)	221 (2.6)	76 (3.3)	218 (1.1)
Pennsylvania	18 (3.2)	232 (2.9)	34 (3.7)	227 (2.1)	48 (3.8)	217 (2.0)
Rhode Island	18 (2.7)	223 (3.3)	29 (3.7)	216 (2.9)	53 (4.3)	210 (2.4)
South Carolina	15 (2.1)	219 (2.9)	33 (3.4)	214 (1.8)	51 (3.6)	208 (1.5)
Tennessee	7 (1.9)	208 (6.1)!	22 (2.6)	215 (2.8)	70 (3.1)	209 (1.6)
Texas	24 (3.7)	225 (2.6)	38 (3.3)	219 (2.0)	38 (4.6)	210 (2.8)
Utah	21 (3.2)	228 (2.4)	30 (2.9)	221 (1.5)	49 (3.8)	222 (1.5)
Virginia	14 (2.3)	229 (3.7)	36 (3.4)	224 (2.2)	50 (3.7)	214 (2.0)
West Virginia	24 (3.0)	217 (2.0)	32 (3.2)	213 (1.9)	45 (3.4)	212 (1.9)
Wisconsin	34 (3.7)	231 (2.0)	37 (3.6)	228 (2.1)	29 (3.8)	225 (1.7)
Wyoming	24 (3.1)	226 (1.7)	43 (3.5)	225 (1.6)	32 (2.8)	223 (1.5)
TERRITORY						
Guam	10 (0.8)	189 (3.0)	22 (1.1)	199 (1.6)	68 (1.1)	189 (1.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.80 | **Teachers' Reports on the Frequency of Calculator Use in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	56 (3.0)	274 (1.5)	21 (2.2)	257 (2.3)	23 (2.5)	263 (2.2)
Northeast	55 (6.5)	272 (3.8)	22 (4.6)	264 (5.9)[1]	23 (3.9)	260 (6.3)
Southeast	43 (4.8)	270 (1.8)	24 (4.4)	250 (3.4)	33 (5.9)	260 (3.3)
Central	64 (7.6)	281 (2.5)	25 (6.3)	258 (4.5)[1]	11 (4.7)	280 (3.4)[1]
West	60 (5.4)	272 (2.8)	16 (2.4)	257 (4.3)	24 (4.4)	262 (3.4)
STATES						
Alabama	45 (4.2)»	257 (2.7)	26 (4.0)	250 (2.4)	29 (4.0)	246 (4.1)
Arizona	52 (3.8)»	269 (1.8)	19 (2.9)«	263 (3.4)	29 (3.3)	258 (2.3)
Arkansas	39 (3.9)	262 (1.9)	23 (3.1)<	254 (2.4)	39 (4.0)	251 (2.2)
California	65 (4.2)	266 (2.1)	21 (3.2)<	252 (4.1)	14 (2.1)	252 (4.3)
Colorado	73 (2.6)»	275 (1.3)	11 (1.9)«	257 (3.9)	15 (2.5)	266 (2.7)
Connecticut	61 (3.3)	281 (1.2)>	29 (3.3)<	263 (3.0)	10 (1.9)	260 (6.1)
Delaware	57 (0.8)»	262 (1.4)	23 (0.9)	263 (1.9)	19 (0.7)«	261 (2.0)
Dist. Columbia	61 (1.1)	235 (1.5)>	28 (1.1)«	238 (2.4)	12 (0.6)>	228 (3.8)<
Florida	50 (3.6)»	269 (2.1)	20 (3.1)«	254 (3.0)	30 (3.2)	248 (2.5)
Georgia	52 (3.3)	262 (2.0)	30 (2.6)	254 (2.1)	18 (2.4)	254 (3.2)
Hawaii	42 (0.9)»	265 (1.4)	34 (0.9)	257 (1.2)>	24 (0.8)«	246 (2.0)
Idaho	73 (2.3)»	277 (0.9)	12 (2.4)«	273 (2.2)[1]	15 (2.1)<	267 (2.1)
Indiana	39 (3.4)>	272 (2.2)	27 (3.4)«	269 (1.8)	34 (3.2)	268 (2.4)
Iowa	68 (4.2)	285 (1.1)»	20 (3.7)<	277 (3.0)[1]	11 (2.6)	279 (3.2)[1]
Kentucky	73 (2.9)»	266 (1.5)	19 (2.9)<	253 (3.2)	9 (2.0)«	251 (3.9)[1]
Louisiana	38 (4.0)»	256 (2.9)	25 (3.1)<	244 (3.1)	37 (3.9)	247 (2.2)
Maine[1]	79 (3.9)	279 (1.2)	17 (3.5)	275 (2.8)[1]	4 (1.7)	281 (6.2)[1]
Maryland	61 (3.8)»	272 (2.0)	26 (3.1)«	259 (2.8)	14 (2.1)	248 (4.1)
Massachusetts[1]	35 (3.5)	279 (2.2)	19 (2.7)	272 (3.2)	46 (3.8)	267 (1.6)
Michigan	76 (3.2)»	269 (1.9)	15 (2.6)«	256 (4.8)	9 (2.0)<	266 (4.9)[1]
Minnesota	77 (3.8)»	283 (1.2)>	15 (3.2)«	278 (2.2)[1]	8 (2.2)	271 (4.1)[1]
Mississippi[1]	25 (3.2)	252 (3.4)	22 (3.6)	244 (4.2)	53 (4.1)	243 (1.8)
Missouri[1]	78 (3.8)	273 (1.1)	11 (2.2)	259 (4.2)[1]	11 (2.9)	271 (2.9)[1]
Nebraska	66 (4.9)	280 (1.5)	19 (2.8)	269 (2.5)	15 (3.6)	276 (2.5)[1]
New Hampshire	62 (3.4)	279 (1.3)>	22 (3.2)<	275 (2.0)>	15 (2.6)	274 (2.9)
New Jersey	51 (4.2)»	276 (1.9)	25 (3.9)<	271 (3.6)	23 (3.0)<	261 (4.2)
New Mexico	44 (3.4)»	265 (1.4)	27 (3.3)«	258 (1.5)	29 (3.8)	253 (2.0)
New York	25 (3.4)	272 (3.3)>	32 (3.1)	269 (2.7)	43 (3.9)	259 (4.2)
North Carolina	42 (3.3)>	262 (1.7)>	34 (2.9)«	256 (1.8)	24 (2.7)	250 (2.9)
North Dakota	68 (4.5)>	284 (1.4)	10 (2.9)«	284 (3.1)[1]	21 (3.4)	280 (2.0)
Ohio	49 (4.2)	273 (2.6)	23 (3.3)	263 (3.4)	29 (4.4)	269 (4.1)
Oklahoma	33 (4.1)	270 (2.2)	23 (3.4)	267 (2.4)	44 (4.3)	266 (1.8)
Pennsylvania	46 (4.2)>	276 (2.2)	24 (2.9)<	267 (2.7)	30 (3.4)	267 (2.6)
Rhode Island	47 (0.8)»	269 (1.2)»	18 (0.5)«	261 (2.5)	36 (0.8)«	261 (1.0)
South Carolina[1]	47 (3.5)	268 (1.8)	29 (3.0)	254 (1.9)	24 (2.7)	254 (3.2)
Tennessee[1]	37 (4.3)	265 (2.3)	23 (3.1)	256 (2.6)	41 (4.1)	253 (2.2)
Texas	64 (3.5)»	269 (1.9)	24 (3.0)«	256 (3.0)	13 (2.0)	260 (2.4)»
Utah[1]	77 (3.0)	275 (1.0)	8 (1.4)	266 (3.5)	15 (2.3)	269 (2.4)
Virginia	40 (3.3)	274 (2.1)	30 (2.6)	263 (1.9)	31 (2.6)	263 (2.3)
West Virginia	43 (4.0)»	264 (1.7)	27 (3.7)	254 (1.8)	30 (3.5)	255 (1.9)
Wisconsin	83 (3.2)>	280 (1.7)	11 (2.1)<	273 (3.3)	6 (2.2)	270 (4.3)[1]
Wyoming	73 (3.2)»	277 (0.9)	12 (2.2)«	268 (2.6)	16 (2.5)	270 (2.2)
TERRITORIES						
Guam	26 (1.0)>	244 (2.1)	27 (1.2)>	224 (2.3)	47 (1.3)«	236 (1.4)>
Virgin Islands	39 (1.0)»	227 (1.5)>	23 (0.7)«	217 (1.7)«	38 (1.2)«	217 (2.0)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.81 | **Students' Reports on the Frequency of Calculator Use in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	22 (1.2)	215 (1.9)	21 (1.4)	227 (1.2)	57 (1.9)	215 (1.0)
Northeast	23 (2.0)	222 (4.2)	25 (3.3)	232 (3.4)	52 (3.8)	220 (2.6)
Southeast	22 (2.0)	204 (4.4)	14 (1.2)	219 (2.6)	64 (3.0)	209 (2.0)
Central	19 (2.3)	220 (3.0)	26 (3.8)	230 (1.6)	55 (4.6)	220 (2.5)
West	23 (2.4)	215 (4.4)	22 (2.1)	224 (2.1)	55 (3.1)	216 (1.4)
STATES						
Alabama	28 (2.0)	202 (2.0)	17 (1.2)	217 (2.5)	56 (2.5)	207 (1.8)
Arizona	21 (1.5)	210 (2.1)	17 (1.1)	222 (2.0)	62 (1.9)	213 (1.3)
Arkansas	20 (1.7)	203 (2.1)	10 (0.9)	213 (2.5)	70 (2.1)	210 (1.0)
California	29 (1.9)	204 (3.2)	24 (1.5)	211 (2.5)	47 (2.6)	208 (1.6)
Colorado	27 (1.5)	216 (1.7)	26 (1.3)	230 (1.5)	47 (2.1)	217 (1.3)
Connecticut	30 (1.7)	225 (1.8)	22 (1.3)	231 (1.6)	48 (2.3)	224 (1.6)
Delaware	31 (1.0)	211 (1.7)	19 (0.9)	228 (1.7)	50 (1.2)	216 (1.2)
Dist. Columbia	61 (1.1)	191 (0.8)	14 (0.7)	200 (1.8)	25 (1.0)	189 (1.4)
Florida	22 (1.4)	204 (2.4)	18 (1.1)	223 (1.9)	59 (1.9)	213 (1.7)
Georgia	21 (1.5)	205 (2.6)	17 (1.2)	224 (2.1)	62 (2.1)	215 (1.3)
Hawaii	44 (2.0)	211 (1.7)	21 (1.0)	222 (2.0)	35 (2.0)	210 (1.5)
Idaho	27 (1.9)	221 (1.8)	25 (1.4)	225 (1.2)	48 (2.3)	218 (1.3)
Indiana	18 (1.4)	215 (2.3)	17 (1.2)	227 (1.5)	65 (2.0)	219 (1.2)
Iowa	21 (1.5)	227 (2.0)	25 (1.3)	235 (1.6)	53 (2.2)	227 (1.2)
Kentucky	49 (2.4)	212 (1.4)	21 (1.2)	222 (1.2)	30 (2.1)	211 (1.7)
Louisiana	26 (1.9)	201 (2.2)	14 (1.2)	214 (2.6)	61 (2.3)	202 (1.6)
Maine	22 (2.3)	228 (2.4)	29 (1.6)	235 (1.6)	49 (2.8)	230 (1.2)
Maryland	31 (1.9)	212 (2.3)	29 (1.3)	226 (1.4)	40 (2.2)	213 (1.4)
Massachusetts	28 (2.3)	225 (2.4)	20 (1.3)	235 (1.5)	52 (2.9)	223 (1.5)
Michigan	33 (2.0)	213 (2.6)	30 (1.4)	228 (1.7)	37 (1.8)	217 (2.3)
Minnesota	24 (1.9)	225 (1.9)	25 (1.2)	234 (1.6)	51 (2.1)	226 (1.1)
Mississippi	31 (2.0)	196 (1.8)	13 (1.0)	212 (2.3)	56 (2.4)	200 (1.3)
Missouri	19 (1.5)	213 (2.3)	19 (1.3)	231 (1.7)	62 (2.2)	221 (1.4)
Nebraska	21 (2.1)	223 (2.5)	22 (1.4)	232 (2.1)	57 (2.3)	222 (1.4)
New Hampshire	22 (2.3)	230 (2.0)	23 (1.6)	237 (1.7)	55 (2.9)	225 (1.3)
New Jersey	27 (2.3)	225 (2.4)	20 (1.5)	235 (1.9)	53 (2.9)	223 (1.9)
New Mexico	16 (1.3)	204 (3.2)	11 (0.8)	219 (3.0)	74 (1.4)	213 (1.4)
New York	22 (1.9)	210 (2.4)	14 (1.2)	221 (2.2)	64 (2.6)	220 (1.3)
North Carolina	28 (1.7)	206 (1.5)	20 (1.2)	224 (1.6)	52 (2.1)	210 (1.4)
North Dakota	18 (2.1)	221 (1.9)	22 (1.8)	232 (1.4)	59 (2.6)	228 (1.0)
Ohio	24 (2.0)	214 (2.1)	23 (1.5)	226 (1.7)	53 (2.6)	216 (1.4)
Oklahoma	15 (1.2)	211 (2.3)	10 (0.7)	225 (2.4)	75 (1.4)	220 (1.1)
Pennsylvania	28 (2.0)	220 (2.4)	24 (1.5)	230 (2.2)	48 (2.5)	222 (1.5)
Rhode Island	23 (2.0)	211 (2.3)	16 (1.1)	223 (2.5)	61 (2.6)	213 (1.7)
South Carolina	26 (1.5)	208 (1.6)	17 (1.0)	221 (2.3)	58 (1.9)	210 (1.4)
Tennessee	17 (1.3)	201 (2.4)	13 (0.9)	214 (2.2)	70 (1.8)	211 (1.4)
Texas	28 (1.9)	214 (2.1)	22 (1.1)	229 (1.9)	50 (2.5)	214 (1.6)
Utah	25 (2.3)	220 (2.0)	20 (1.2)	228 (1.4)	55 (2.6)	222 (1.2)
Virginia	19 (1.4)	213 (2.2)	19 (1.1)	231 (2.0)	62 (1.9)	219 (1.4)
West Virginia	28 (1.7)	212 (1.5)	19 (1.2)	220 (1.6)	53 (2.3)	213 (1.4)
Wisconsin	31 (2.3)	226 (1.8)	25 (1.3)	234 (1.6)	43 (2.7)	226 (1.3)
Wyoming	26 (1.9)	222 (1.5)	26 (1.4)	230 (1.3)	48 (2.2)	222 (1.3)
TERRITORY						
Guam	26 (0.9)	178 (1.5)	12 (0.8)	189 (2.6)	62 (1.2)	198 (1.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

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TABLE A.81 | **Students' Reports on the Frequency of Calculator Use in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	53 (2.1)	272 (1.4)	18 (0.9)	263 (1.6)	29 (1.8)	259 (1.6)
Northeast	45 (4.1)	272 (4.0)	20 (2.4)	266 (3.6)	35 (2.6)	264 (5.2)
Southeast	44 (4.1)	264 (1.2)	18 (1.6)	258 (2.6)	38 (3.5)	252 (1.8)
Central	63 (5.2)	277 (2.2)	17 (2.3)	268 (3.6)	20 (3.3)	267 (3.2)
West	58 (3.6)	272 (2.8)	16 (1.2)	262 (3.5)	26 (3.4)	259 (2.5)
STATES						
Alabama	49 (3.1)»	254 (2.3)	17 (1.4)	251 (2.9)	34 (2.6)«	249 (1.9)
Arizona	49 (2.8)»	270 (1.6)»	18 (1.1)	262 (1.9)	33 (2.6)«	257 (1.9)
Arkansas	42 (2.5)»	261 (1.6)	17 (1.2)	257 (1.7)	40 (2.3)	249 (1.7)
California	56 (2.7)	268 (2.1)	17 (1.2)	259 (2.5)	27 (2.1)	250 (2.7)
Colorado	70 (2.5)»	275 (1.2)>	13 (1.0)«	264 (2.0)	17 (1.9)<	264 (2.0)
Connecticut	53 (2.0)»	280 (1.3)>	21 (1.3)«	269 (1.7)	25 (1.7)	263 (2.2)
Delaware	53 (1.0)»	265 (1.3)	21 (0.9)	263 (1.9)	26 (0.9)«	257 (1.4)
Dist. Columbia	56 (1.3)	234 (1.2)»	19 (1.0)	238 (2.2)	25 (1.2)	232 (2.1)
Florida	46 (2.5)»	268 (1.8)»	16 (1.0)<	259 (2.5)	38 (2.5)«	249 (2.0)
Georgia	47 (2.4)	264 (1.7)	20 (1.4)	257 (1.9)	33 (2.0)	253 (1.8)
Hawaii	46 (1.0)»	259 (1.3)>	20 (0.9)	258 (1.8)	34 (1.0)«	254 (1.5)
Idaho	69 (2.1)»	277 (0.9)>	13 (1.2)<	271 (1.7)	19 (1.2)«	266 (1.7)
Indiana	41 (2.6)>	273 (1.7)>	21 (1.4)<	271 (1.9)	38 (2.5)	265 (1.8)
Iowa	67 (3.3)>	285 (1.2)>	15 (1.5)«	281 (1.8)	18 (2.7)	277 (2.1)
Kentucky	66 (2.4)»	265 (1.4)>	18 (1.5)	260 (2.1)	16 (1.6)«	249 (2.0)<
Louisiana	39 (2.6)>	252 (2.0)	21 (1.5)	250 (2.7)	40 (2.8)«	246 (1.6)
Maine[1]	73 (2.7)	279 (1.2)	15 (1.6)	277 (1.8)	12 (1.6)	274 (2.5)
Maryland	49 (2.4)»	271 (1.6)	23 (1.4)	263 (2.2)	28 (2.0)«	255 (2.3)
Massachusetts[1]	35 (2.7)	278 (1.8)	17 (1.3)	275 (2.0)	47 (2.8)	267 (1.5)
Michigan	68 (2.9)»	272 (1.9)	14 (1.5)	260 (2.4)	18 (2.0)«	254 (2.7)
Minnesota	75 (2.5)»	283 (1.1)>	12 (1.1)«	278 (2.3)	13 (1.9)«	277 (2.8)
Mississippi[1]	31 (2.3)	248 (2.2)	16 (1.3)	250 (2.1)	53 (2.5)	243 (1.5)
Missouri[1]	75 (2.8)	272 (1.3)	10 (1.2)	272 (2.3)	14 (2.3)	261 (2.9)
Nebraska	69 (3.2)»	278 (1.4)	13 (1.3)<	279 (2.5)	17 (2.4)«	273 (2.1)
New Hampshire	61 (2.4)»	279 (1.2)	20 (1.6)<	278 (1.8)	19 (1.7)«	274 (1.9)
New Jersey	46 (2.9)»	275 (2.1)	22 (1.7)	276 (1.9)	32 (2.6)«	262 (3.6)
New Mexico	46 (2.2)»	262 (1.0)	20 (1.2)	263 (1.9)	34 (2.2)«	252 (1.6)
New York	29 (2.3)>	268 (2.1)	22 (1.3)	271 (3.1)	49 (2.6)«	262 (3.1)
North Carolina	44 (2.3)»	261 (1.4)»	22 (1.3)	259 (1.8)	33 (2.0)<	252 (1.8)
North Dakota	72 (2.8)»	283 (1.3)	9 (1.1)«	282 (2.4)	19 (2.2)<	281 (1.9)
Ohio	52 (3.1)>	271 (1.8)	19 (1.6)	266 (2.1)	29 (2.4)<	263 (2.9)
Oklahoma	36 (2.9)	270 (1.7)	16 (1.3)	264 (2.5)	48 (2.6)	267 (1.6)
Pennsylvania	42 (3.0)»	274 (2.1)	20 (1.3)	270 (2.4)	38 (2.7)«	268 (1.9)
Rhode Island	47 (0.8)»	268 (1.2)»	19 (0.9)	265 (1.7)	33 (0.8)«	262 (1.2)
South Carolina[1]	46 (2.1)	265 (1.3)	20 (1.2)	261 (1.9)	34 (2.2)	253 (1.6)
Tennessee[1]	42 (3.0)	263 (1.9)	18 (1.0)	262 (1.9)	40 (2.9)	252 (1.7)
Texas	62 (2.5)»	268 (1.7)	16 (1.3)«	262 (2.1)	21 (1.9)«	254 (2.3)
Utah[1]	67 (2.1)	275 (0.9)	12 (1.1)	272 (1.8)	21 (1.6)	271 (1.8)
Virginia	43 (2.2)	271 (1.8)	20 (1.1)	267 (1.7)	37 (2.2)	263 (1.9)
West Virginia	43 (2.8)»	262 (1.4)	21 (1.6)	258 (2.0)	37 (2.7)«	255 (1.4)
Wisconsin	71 (4.1)	280 (1.5)	14 (1.4)<	272 (3.1)	14 (3.4)	273 (5.6)!
Wyoming	71 (2.5)»	276 (1.1)	11 (1.3)«	272 (1.9)	19 (2.0)<	271 (1.6)
TERRITORIES						
Guam	30 (1.2)»	238 (2.2)	15 (0.9)	242 (2.5)	55 (1.1)«	231 (1.3)
Virgin Islands	40 (1.1)»	226 (1.4)»	15 (0.8)	225 (2.3)	46 (1.0)«	217 (1.6)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

TABLE A.82 | **Students' Understanding of When to Use a Calculator in Solving Mathematics Problems**

PUBLIC SCHOOLS	Grade 4 - 1992			
	High Calculator-Use Group		Other Group	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	23 (0.9)	217 (1.7)	77 (0.9)	217 (1.0)
Northeast	24 (2.8)	220 (4.2)	76 (2.8)	223 (2.1)
Southeast	27 (1.5)	207 (3.4)	73 (1.5)	209 (2.4)
Central	20 (1.7)	225 (4.4)	80 (1.7)	221 (2.3)
West	23 (1.1)	218 (2.2)	77 (1.1)	216 (1.9)
STATES				
Alabama	26 (1.2)	207 (2.2)	74 (1.2)	207 (2.0)
Arizona	22 (1.1)	214 (2.0)	78 (1.1)	212 (1.2)
Arkansas	31 (1.4)	212 (1.9)	69 (1.4)	206 (1.1)
California	19 (1.1)	206 (2.7)	81 (1.1)	208 (1.6)
Colorado	20 (1.1)	221 (1.8)	80 (1.1)	220 (1.1)
Connecticut	21 (1.0)	224 (2.1)	79 (1.0)	227 (1.3)
Delaware	24 (1.5)	217 (2.0)	76 (1.5)	216 (0.9)
Dist. Columbia	26 (1.2)	193 (1.9)	74 (1.2)	190 (1.0)
Florida	24 (1.2)	216 (2.2)	77 (1.2)	213 (1.5)
Georgia	27 (1.4)	214 (2.0)	73 (1.4)	213 (1.8)
Hawaii	23 (1.1)	214 (2.0)	77 (1.1)	213 (1.4)
Idaho	24 (1.2)	222 (1.8)	76 (1.2)	220 (1.1)
Indiana	26 (1.1)	222 (1.8)	74 (1.1)	219 (1.1)
Iowa	27 (1.1)	229 (1.5)	73 (1.1)	229 (1.3)
Kentucky	26 (1.2)	219 (1.5)	74 (1.2)	212 (1.2)
Louisiana	28 (1.3)	202 (2.4)	72 (1.3)	203 (1.7)
Maine	24 (1.4)	230 (1.8)	76 (1.4)	231 (1.4)
Maryland	23 (1.0)	220 (1.9)	77 (1.0)	215 (1.6)
Massachusetts	22 (1.1)	224 (2.2)	78 (1.1)	225 (1.5)
Michigan	19 (1.1)	221 (2.6)	81 (1.1)	218 (1.7)
Minnesota	22 (1.1)	229 (1.9)	78 (1.1)	227 (1.1)
Mississippi	31 (1.3)	202 (1.7)	69 (1.3)	198 (1.5)
Missouri	26 (1.4)	223 (1.9)	74 (1.4)	220 (1.4)
Nebraska	26 (1.5)	226 (1.5)	74 (1.5)	223 (1.5)
New Hampshire	22 (1.4)	227 (2.1)	78 (1.4)	227 (1.4)
New Jersey	23 (1.4)	224 (2.1)	77 (1.4)	227 (1.8)
New Mexico	25 (1.6)	214 (1.8)	75 (1.6)	212 (2.1)
New York	21 (1.3)	216 (2.2)	79 (1.3)	217 (1.5)
North Carolina	24 (1.1)	212 (1.9)	76 (1.1)	211 (1.5)
North Dakota	27 (1.4)	229 (1.5)	73 (1.4)	228 (1.0)
Ohio	23 (1.1)	219 (1.8)	77 (1.1)	217 (1.4)
Oklahoma	29 (1.1)	218 (1.5)	71 (1.1)	219 (1.2)
Pennsylvania	25 (1.4)	223 (1.8)	75 (1.4)	223 (1.6)
Rhode Island	22 (1.1)	215 (2.6)	78 (1.1)	213 (1.7)
South Carolina	29 (1.2)	213 (1.8)	71 (1.2)	210 (1.2)
Tennessee	27 (1.2)	211 (2.1)	73 (1.2)	209 (1.6)
Texas	27 (1.3)	216 (1.6)	73 (1.3)	217 (1.6)
Utah	24 (1.2)	225 (1.5)	76 (1.2)	222 (1.2)
Virginia	26 (1.1)	220 (1.7)	74 (1.1)	219 (1.4)
West Virginia	25 (1.0)	213 (2.0)	75 (1.0)	213 (1.2)
Wisconsin	22 (1.2)	228 (1.8)	78 (1.2)	228 (1.3)
Wyoming	29 (1.2)	225 (1.5)	71 (1.2)	224 (1.1)
TERRITORY				
Guam	27 (1.4)	197 (1.9)	73 (1.4)	189 (1.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. Students in the "High" group used the calculator for at least 65 percent of the calculator-suitable items and used the calculator for no more than one of the calculator-unsuitable items. Students in the "Other" group used the calculator for less than 65 percent of the calculator-suitable items or used it for more than one of the calculator-unsuitable items.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.82 | **Students' Understanding of When to Use a Calculator in Solving Mathematics Problems (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992			
	High Calculator-Use Group		Other Group	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	26 (0.9)	280 (1.6)	74 (0.9)	260 (1.1)
Northeast	22 (1.4)	283 (2.9)	78 (1.4)	261 (2.9)
Southeast	25 (1.1)	273 (2.1)	75 (1.1)	251 (1.6)
Central	25 (2.6)	285 (3.5)	75 (2.6)	269 (2.4)
West	31 (1.9)	281 (3.1)	69 (1.9)	261 (2.7)
STATES				
Alabama	27 (1.3)	262 (2.5)	73 (1.3)	247 (1.7)
Arizona	26 (1.3)	275 (2.3)	74 (1.3)	260 (1.6)
Arkansas	25 (1.2)	269 (2.1)	75 (1.2)	251 (1.5)
California	24 (1.4)	273 (2.9)	76 (1.4)	256 (1.9)
Colorado	30 (1.3)	282 (1.4)	70 (1.3)	266 (1.2)
Connecticut	28 (1.1)	290 (1.7)	72 (1.1)	268 (1.4)
Delaware	24 (1.4)	275 (2.3)	76 (1.4)	258 (1.8)
Dist. Columbia	20 (1.5)	241 (3.8)	80 (1.5)	233 (1.3)
Florida	20 (1.3)	275 (3.2)	80 (1.3)	254 (1.7)
Georgia	26 (1.3)	271 (2.2)	74 (1.3)	255 (1.4)
Hawaii	23 (1.3)	273 (2.4)	77 (1.3)	252 (1.2)
Idaho	34 (1.3)	283 (1.5)	66 (1.3)	269 (0.9)
Indiana	30 (1.4)	280 (1.9)	70 (1.4)	263 (1.4)
Iowa	39 (1.5)	291 (1.5)	61 (1.5)	278 (1.4)
Kentucky	30 (1.3)	277 (1.7)	70 (1.3)	255 (1.3)
Louisiana	23 (1.1)	261 (2.2)	77 (1.1)	246 (1.9)
Maine	33 (1.4)	290 (1.8)	67 (1.4)	272 (1.5)
Maryland	28 (1.4)	282 (2.0)	72 (1.4)	259 (1.5)
Massachusetts	27 (1.6)	284 (1.7)	73 (1.6)	267 (1.4)
Michigan	30 (1.5)	281 (2.1)	70 (1.5)	260 (1.6)
Minnesota	35 (1.8)	292 (1.6)	65 (1.8)	275 (1.2)
Mississippi	27 (1.4)	253 (2.3)	73 (1.4)	242 (1.3)
Missouri	34 (1.6)	281 (1.7)	66 (1.6)	264 (1.3)
Nebraska	33 (1.6)	288 (1.7)	67 (1.6)	273 (1.4)
New Hampshire	30 (1.5)	285 (1.8)	70 (1.5)	275 (1.4)
New Jersey	30 (1.7)	287 (1.5)	70 (1.7)	265 (2.0)
New Mexico	25 (1.1)	271 (2.0)	75 (1.1)	255 (1.1)
New York	26 (1.4)	281 (2.2)	74 (1.4)	262 (2.2)
North Carolina	26 (1.1)	270 (2.0)	74 (1.1)	254 (1.5)
North Dakota	39 (1.5)	287 (1.3)	61 (1.5)	277 (1.6)
Ohio	31 (1.5)	281 (2.5)	69 (1.5)	263 (1.5)
Oklahoma	29 (1.4)	278 (2.0)	71 (1.4)	263 (1.4)
Pennsylvania	27 (1.5)	283 (2.1)	73 (1.5)	265 (1.8)
Rhode Island	24 (1.3)	276 (2.0)	76 (1.3)	262 (1.5)
South Carolina	28 (1.1)	270 (1.6)	72 (1.1)	257 (1.3)
Tennessee	26 (1.3)	269 (2.1)	74 (1.3)	254 (1.8)
Texas	28 (1.0)	279 (2.6)	72 (1.0)	257 (1.3)
Utah	28 (1.0)	284 (1.4)	72 (1.0)	268 (1.1)
Virginia	27 (1.3)	279 (1.8)	73 (1.3)	263 (1.4)
West Virginia	25 (1.2)	270 (2.0)	75 (1.2)	254 (1.1)
Wisconsin	33 (1.4)	288 (1.5)	67 (1.4)	272 (1.9)
Wyoming	34 (1.4)	286 (1.5)	66 (1.4)	269 (1.1)
TERRITORIES				
Guam	23 (1.6)	237 (3.0)	77 (1.6)	232 (1.4)
Virgin Islands	15 (1.0)	230 (2.9)	85 (1.0)	220 (1.4)

TABLE A.83 | **Schools' Reports on the Availability of Computers for Student Use in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992		
	Yes, Computers Available All the Time in Mathematics Classrooms	Yes, Computers Grouped in Laboratory Available to Mathematics Classrooms	Yes, Computers Available to Bring to Classrooms When Needed
	Percentage of Students	Percentage of Students	Percentage of Students
NATION	47 (3.5)	65 (3.7)	51 (3.7)
Northeast	46 (6.1)	56 (9.5)	67 (9.8)
Southeast	42 (6.8)	66 (8.3)	52 (7.4)
Central	46 (7.4)	63 (6.8)	50 (6.8)
West	51 (7.1)	73 (5.8)	38 (5.6)
STATES			
Alabama	36 (5.4)	65 (4.8)	49 (5.2)
Arizona	41 (5.1)	90 (3.2)	40 (4.9)
Arkansas	32 (5.0)	69 (4.1)	29 (4.1)
California	44 (5.8)	82 (4.0)	43 (5.4)
Colorado	49 (5.0)	82 (3.6)	67 (4.3)
Connecticut	55 (5.1)	50 (5.7)	65 (5.5)
Delaware	31 (0.2)	58 (0.3)	56 (0.3)
Dist. Columbia	11 (0.2)	95 (0.1)	36 (0.3)
Florida	58 (4.9)	75 (4.5)	54 (4.5)
Georgia	38 (4.9)	65 (4.7)	66 (5.2)
Hawaii	14 (2.7)	95 (2.1)	42 (5.0)
Idaho	35 (4.3)	69 (3.7)	19 (3.9)
Indiana	62 (4.8)	67 (4.3)	47 (5.3)
Iowa	56 (4.3)	59 (4.7)	63 (3.9)
Kentucky	32 (4.8)	61 (4.7)	43 (4.5)
Louisiana	13 (3.5)	56 (5.1)	30 (4.6)
Maine	55 (6.2)	45 (5.2)	58 (5.6)
Maryland	39 (4.4)	78 (4.4)	63 (4.6)
Massachusetts	52 (4.4)	57 (4.8)	52 (4.4)
Michigan	52 (4.7)	54 (5.4)	58 (5.0)
Minnesota	22 (4.4)	97 (1.9)	65 (5.1)
Mississippi	13 (3.5)	78 (4.2)	20 (4.4)
Missouri	37 (5.0)	57 (4.7)	58 (5.3)
Nebraska	48 (5.2)	58 (5.2)	73 (4.5)
New Hampshire	73 (5.3)	38 (5.9)	52 (6.6)
New Jersey	50 (5.5)	66 (5.7)	52 (6.0)
New Mexico	41 (5.6)	70 (4.8)	44 (6.7)
New York	39 (5.4)	85 (3.8)	58 (5.5)
North Carolina	37 (4.6)	75 (3.9)	45 (5.0)
North Dakota	45 (4.2)	66 (4.1)	66 (4.2)
Ohio	44 (4.0)	46 (4.1)	64 (5.2)
Oklahoma	22 (3.3)	67 (4.7)	47 (4.0)
Pennsylvania	39 (5.2)	67 (4.5)	51 (4.3)
Rhode Island	58 (4.6)	45 (4.9)	65 (5.1)
South Carolina	30 (5.2)	71 (4.8)	44 (5.4)
Tennessee	31 (4.6)	53 (5.5)	54 (5.8)
Texas	12 (3.0)	93 (2.7)	29 (4.7)
Utah	26 (4.1)	89 (3.2)	30 (4.6)
Virginia	46 (5.0)	71 (4.6)	65 (5.5)
West Virginia	51 (4.4)	54 (5.0)	37 (4.6)
Wisconsin	51 (5.2)	72 (4.3)	59 (5.7)
Wyoming	61 (4.4)	89 (2.7)	56 (4.4)
TERRITORY			
Guam	9 (0.1)	93 (0.1)	6 (0.1)

The standard errors of the estimated percentages appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.83 | **Schools' Reports on the Availability of Computers for Student Use in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992		
	Yes, Computers Available All the Time in Mathematics Classrooms	Yes, Computers Grouped in Laboratory Available to Mathematics Classrooms	Yes, Computers Available to Bring to Classrooms When Needed
	Percentage of Students	Percentage of Students	Percentage of Students
NATION	16 (2.9)	71 (3.4)	54 (3.9)
Northeast	8 (4.7)	78 (7.5)	41(10.8)
Southeast	9 (4.4)	59 (7.9)	48 (7.2)
Central	24 (8.7)	79 (6.8)	57 (8.7)
West	23 (6.5)	69 (4.6)	65 (4.7)
STATES			
Alabama	25 (4.7) >	61 (5.5)	47 (5.8)
Arizona	23 (3.9)	67 (5.2)	33 (4.9)
Arkansas	19 (3.9)	55 (5.4)	21 (4.2) <
California	17 (3.6)	64 (4.5)	33 (5.0) <
Colorado	19 (3.6)	75 (4.2)	60 (5.7)
Connecticut	13 (3.3)	81 (4.1)	58 (5.2)
Delaware	8 (0.1)	55 (0.2) «	37 (0.2) »
Dist. Columbia	34 (0.5) »	83 (0.6) «	35 (0.7) »
Florida	35 (5.2)	65 (5.3)	48 (5.0) <
Georgia	13 (2.9)	58 (5.9)	60 (5.4)
Hawaii	2 (0.1) «	92 (0.1) <	34 (0.3) »
Idaho	7 (2.7)	56 (4.2)	32 (4.4)
Indiana	15 (3.8)	71 (4.1)	50 (5.3)
Iowa	18 (3.9)	75 (4.6)	57 (5.7)
Kentucky	10 (3.4)	64 (4.9)	29 (4.7)
Louisiana	6 (2.5)	52 (4.7)	28 (4.0)
Maine[1]	17 (3.5)	60 (4.9)	55 (5.8)
Maryland	10 (3.3)	90 (3.4)	54 (5.0)
Massachusetts[1]	11 (3.2)	89 (3.5)	49 (6.1)
Michigan	14 (3.6)	58 (5.5)	50 (5.5)
Minnesota	18 (4.3)	95 (2.3)	54 (5.9)
Mississippi[1]	4 (2.1)	54 (5.0)	19 (4.7)
Missouri[1]	20 (3.8)	70 (4.4)	46 (4.6)
Nebraska	21 (4.0)	77 (3.9)	55 (5.1) «
New Hampshire	21 (3.6) «	82 (3.0)	54 (4.4) «
New Jersey	26 (5.5) >	64 (5.3)	51 (5.2)
New Mexico	13 (2.4)	72 (4.0)	41 (4.0) «
New York	9 (2.8)	88 (4.1)	48 (5.5)
North Carolina	15 (3.5)	71 (4.9)	46 (5.9)
North Dakota	17 (3.9)	75 (3.3)	47 (4.4) «
Ohio	18 (4.6)	56 (5.9)	56 (5.2)
Oklahoma	14 (3.3)	56 (5.6)	37 (4.0)
Pennsylvania	11 (3.0)	78 (4.6)	46 (5.3)
Rhode Island	6 (0.1) «	84 (0.2) »	54 (0.3) >
South Carolina[1]	15 (3.4)	62 (4.3)	45 (5.4)
Tennessee[1]	13 (3.8)	59 (5.5)	35 (5.0)
Texas	20 (4.3)	50 (5.8)	29 (4.7)
Utah[1]	6 (2.4)	59 (4.2)	35 (4.3)
Virginia	27 (4.0) >	89 (3.9)	70 (4.8)
West Virginia	16 (3.4)	69 (4.4)	29 (3.9)
Wisconsin	18 (4.1)	80 (4.1)	63 (5.5)
Wyoming	28 (3.8)	84 (2.9)	46 (4.0)
TERRITORIES			
Guam	0 (0.0)	39 (0.2)	27 (0.3) »
Virgin Islands	19 (0.1)	80 (0.1) »	21 (0.1)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent.

TABLE A.84 | **Teachers' Reports on the Availability of Computers for Student Use in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	Available in Classroom		Difficult to Access		Not Available	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	45 (3.0)	218 (1.9)	38 (2.8)	219 (1.5)	17 (2.7)	210 (3.0)
Northeast	48 (7.3)	224 (3.9)!	32 (4.6)	217 (4.3)	19 (6.1)	216 (7.8)!
Southeast	42 (3.5)	207 (3.5)	33 (6.6)	211 (2.5)	25 (6.6)	203 (4.7)!
Central	49 (7.0)	222 (2.8)	41 (5.8)	226 (2.5)	11 (3.4)	222 (5.3)!
West	42 (6.0)	219 (3.8)	44 (4.7)	219 (3.6)	14 (4.1)	208 (4.0)!
STATES						
Alabama	38 (3.8)	210 (2.7)	45 (3.8)	207 (2.3)	17 (3.2)	201 (2.5)
Arizona	30 (2.9)	212 (1.9)	53 (3.5)	216 (1.6)	17 (2.6)	213 (2.3)
Arkansas	43 (4.0)	210 (1.6)	33 (4.1)	209 (2.6)	25 (4.3)	208 (2.5)
California	50 (4.0)	207 (2.1)	36 (3.5)	212 (2.4)	14 (2.2)	197 (3.5)
Colorado	47 (3.8)	221 (2.0)	43 (3.5)	220 (1.4)	11 (2.1)	216 (4.2)!
Connecticut	57 (3.9)	230 (1.6)	35 (3.6)	228 (2.1)	8 (2.0)	208 (7.7)!
Delaware	30 (0.8)	216 (1.7)	49 (0.9)	219 (1.2)	20 (1.0)	215 (2.4)
Dist. Columbia	27 (1.0)	196 (1.6)	51 (0.9)	191 (1.1)	22 (1.0)	184 (1.5)
Florida	63 (3.7)	216 (1.4)	30 (3.3)	207 (2.4)	7 (1.9)	205 (3.2)!
Georgia	47 (4.2)	212 (2.1)	45 (4.5)	215 (2.6)	8 (1.9)	215 (3.7)!
Hawaii	30 (2.9)	215 (2.0)	47 (3.1)	212 (2.3)	23 (2.5)	214 (2.4)
Idaho	35 (3.4)	219 (1.5)	47 (3.5)	220 (1.4)	19 (2.8)	222 (2.0)
Indiana	47 (3.9)	221 (1.7)	43 (3.8)	218 (1.7)	10 (2.3)	219 (3.0)!
Iowa	54 (4.3)	229 (1.4)	37 (4.3)	231 (1.7)	9 (2.0)	223 (2.8)!
Kentucky	39 (4.7)	215 (1.8)	40 (4.9)	212 (1.7)	21 (3.3)	214 (2.2)
Louisiana	25 (3.8)	207 (3.0)	26 (3.7)	207 (3.5)	49 (4.5)	198 (2.1)
Maine	53 (4.5)	230 (1.4)	37 (4.3)	231 (1.8)	10 (2.6)	230 (2.8)!
Maryland	49 (3.5)	220 (2.5)	39 (3.8)	219 (1.8)	12 (2.4)	209 (4.2)!
Massachusetts	49 (3.9)	229 (2.0)	39 (3.8)	225 (2.2)	12 (2.4)	224 (3.3)!
Michigan	51 (4.5)	222 (2.3)	42 (4.3)	215 (2.3)	7 (1.8)	216 (9.8)!
Minnesota	33 (3.9)	228 (2.4)	60 (3.7)	227 (1.3)	7 (1.9)	222 (5.9)!
Mississippi	24 (3.7)	199 (2.6)	43 (3.4)	199 (1.9)	33 (3.4)	202 (2.4)
Missouri	44 (3.7)	223 (2.0)	39 (3.6)	224 (2.0)	17 (3.5)	213 (3.6)!
Nebraska	47 (3.7)	227 (2.0)	47 (3.9)	223 (1.7)	6 (1.9)	224 (4.7)!
New Hampshire	57 (3.9)	228 (1.2)	37 (3.6)	233 (2.0)	7 (1.6)	219 (4.3)!
New Jersey	45 (4.1)	233 (2.0)	38 (3.7)	227 (2.1)	17 (2.9)	211 (5.0)
New Mexico	34 (5.0)	215 (2.1)	51 (4.6)	213 (1.8)	16 (3.1)	203 (3.2)
New York	32 (3.5)	218 (2.7)	42 (3.8)	218 (1.7)	26 (3.0)	214 (2.8)
North Carolina	39 (3.3)	215 (1.6)	50 (3.3)	210 (1.3)	11 (2.1)	213 (2.9)
North Dakota	40 (5.1)	225 (1.7)	46 (4.6)	230 (1.3)	14 (3.3)	228 (1.8)!
Ohio	43 (3.7)	218 (2.1)	40 (3.4)	217 (2.0)	17 (3.0)	214 (3.1)
Oklahoma	28 (3.6)	219 (1.7)	52 (3.3)	222 (1.5)	20 (3.0)	215 (2.0)
Pennsylvania	34 (3.5)	224 (2.3)	47 (3.6)	225 (2.0)	19 (3.3)	215 (4.3)
Rhode Island	43 (4.7)	215 (2.4)	37 (4.0)	219 (2.6)	20 (3.4)	203 (3.0)
South Carolina	38 (3.8)	212 (1.9)	47 (3.4)	212 (1.6)	14 (2.3)	209 (3.4)
Tennessee	42 (3.9)	207 (2.1)	36 (3.7)	213 (2.5)	22 (3.1)	210 (2.0)
Texas	25 (3.1)	220 (2.6)	56 (4.0)	217 (2.0)	19 (3.1)	214 (3.1)
Utah	31 (3.4)	223 (1.8)	51 (3.2)	224 (1.1)	18 (2.3)	221 (2.1)
Virginia	51 (4.2)	222 (2.1)	40 (3.8)	217 (2.4)	10 (1.8)	216 (4.5)
West Virginia	50 (3.9)	214 (1.6)	34 (3.3)	215 (1.6)	16 (3.3)	209 (2.9)!
Wisconsin	41 (4.3)	227 (2.2)	51 (4.4)	228 (1.3)	8 (2.2)	234 (3.3)!
Wyoming	50 (3.8)	226 (1.2)	45 (3.7)	224 (1.4)	5 (1.5)	221 (3.7)!
TERRITORY						
Guam	17 (1.1)	185 (2.5)	57 (1.1)	194 (1.0)	26 (0.7)	190 (1.7)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.84 | **Teachers' Reports on the Availability of Computers for Student Use in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Available in Classroom		Difficult to Access		Not Available	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	19 (2.2)	264 (2.1)	56 (3.0)	271 (1.8)	24 (2.2)	263 (1.9)
Northeast	19 (5.2)	265 (4.7)»	64 (6.1)	270 (5.0)	18 (4.2)	262 (5.0)»
Southeast	23 (5.2)	264 (3.2)»	48 (5.5)	265 (2.0)	29 (4.6)	254 (2.4)
Central	17 (5.0)	268 (4.7)»	65 (8.3)	279 (4.4)»	18 (4.1)	269 (4.4)»
West	19 (2.5)	259 (4.6)	53 (3.9)	270 (2.5)	29 (4.0)	269 (3.2)
STATES						
Alabama	15 (3.2)	249 (4.6)»	60 (4.1)	253 (2.6)	26 (3.8)	252 (2.8)
Arizona	17 (2.8)	265 (3.3)	48 (4.1)	264 (2.0)	35 (3.5)	264 (1.8)
Arkansas	23 (3.6)	254 (3.3)	33 (3.8)	256 (2.3)	44 (4.3)	257 (1.9)
California	24 (3.4)	259 (3.3)	48 (4.0)	263 (2.1)	28 (3.7)	259 (3.4)
Colorado	15 (2.3)	272 (3.0)	69 (2.9)	273 (1.3) >	17 (2.7)	263 (2.0)
Connecticut	22 (3.5)	270 (4.3)	58 (3.4)	278 (1.6)	19 (2.8)	265 (4.4)
Delaware	18 (0.7)»	251 (2.8)	39 (1.0)«	266 (1.7)	43 (0.7)»	263 (1.3) >
Dist. Columbia	20 (1.0)	242 (2.2)»	67 (1.1) <	232 (1.3)	13 (0.6) >	235 (2.9)
Florida	27 (3.2)	254 (2.6)	48 (3.7)	265 (1.9) >	25 (2.9) <	254 (3.0)
Georgia	27 (3.5)	258 (2.6)	50 (3.9)	258 (1.8)	23 (3.7)	258 (2.6)
Hawaii	11 (0.7)	252 (3.4)	68 (0.9) >	258 (1.0)»	21 (0.6)«	261 (1.8)»
Idaho	15 (2.1)	274 (2.1)»	39 (3.6)	274 (1.5)	46 (3.7)	276 (1.0)
Indiana	15 (2.9)	273 (2.4)	66 (4.7)	270 (1.7)	19 (4.5)	268 (2.4)»
Iowa	20 (3.8)	281 (2.6)	58 (4.6)	285 (1.4)»	21 (3.7) >	279 (2.1)
Kentucky	13 (2.8)	252 (3.5)»	57 (3.8) >	265 (1.6) >	30 (3.5)	261 (1.7)
Louisiana	12 (2.9)	252 (6.5)»	37 (4.3)	250 (3.0)	52 (4.6)	249 (2.3)
Maine[1]	19 (4.0)	274 (2.3)»	61 (4.5)	280 (1.4)	20 (3.6)	276 (1.9)»
Maryland	19 (3.0)	271 (3.9)	73 (3.6)	266 (1.7)	8 (2.4) <	252 (8.0)»
Massachusetts[1]	19 (3.4)	273 (3.7)	60 (3.4)	275 (1.6)	20 (3.1)	263 (2.5)
Michigan	13 (2.8)	277 (4.4)»	60 (3.7) >	268 (2.4)	28 (3.7)	259 (3.6)
Minnesota	19 (3.2)	280 (2.5)	70 (4.0)	283 (1.2)»	11 (2.5)	274 (3.4)»
Mississippi[1]	10 (2.3)	236 (3.7)»	37 (4.1)	246 (2.6)	53 (4.5)	247 (1.9)
Missouri[1]	19 (2.9)	265 (2.6)	56 (4.2)	275 (1.3)	26 (3.5)	266 (2.1)
Nebraska	22 (3.3)	276 (3.2)	62 (4.2)	278 (1.7)	16 (3.1)	276 (2.1)»
New Hampshire	19 (3.2)	279 (3.1)	60 (3.8)	278 (1.3) >	21 (2.7)	274 (1.8)
New Jersey	27 (3.7)	271 (4.3)	50 (4.0)	273 (2.4)	24 (2.8)	269 (3.4)
New Mexico	13 (2.0)	256 (2.1)	62 (4.0)	260 (1.1)	25 (3.5)	259 (2.0)
New York	21 (3.6) >	273 (4.4)	58 (4.2)	269 (2.9)	21 (3.1)	249 (5.1)
North Carolina	13 (2.4)	251 (2.9)	68 (3.3)	258 (1.4)»	19 (3.3)	258 (2.7)
North Dakota	17 (3.0)	281 (2.5)	57 (3.7)	284 (1.4)	26 (3.1)	282 (2.0)
Ohio	18 (3.8)	264 (5.7)»	60 (4.9)	272 (2.3)	22 (4.1)	266 (3.7)»
Oklahoma	20 (3.3)	265 (2.6)	45 (4.0)	269 (1.6)	35 (3.3)	267 (2.6)
Pennsylvania	14 (2.6)	268 (2.5)	57 (4.1)	273 (2.1)	29 (3.6)	269 (3.2)
Rhode Island	15 (0.5)	269 (2.0) >	62 (0.9) <	264 (1.1)	24 (0.9)»	264 (1.3)»
South Carolina[1]	24 (3.1)	250 (3.1)	48 (3.6)	265 (1.4)	28 (3.3)	263 (2.8)
Tennessee[1]	18 (2.9)	256 (3.3)	41 (3.9)	257 (2.0)	41 (4.2)	260 (2.3)
Texas	15 (2.5)	260 (4.6)	41 (4.3)	270 (2.6) >	44 (4.6)	261 (1.9) >
Utah[1]	12 (1.3)	265 (2.6)	44 (3.5)	274 (1.3)	44 (3.7)	275 (1.2)
Virginia	23 (2.7)	268 (3.0)	64 (3.1)	269 (1.5)	13 (2.6)	256 (2.9)
West Virginia	21 (3.7)	255 (2.1)	54 (4.3)	260 (1.3)	25 (3.0)	259 (2.6)
Wisconsin	16 (2.6)	273 (2.6)	73 (3.4)	280 (1.8)	11 (2.4)	274 (4.4)»
Wyoming	18 (3.1)	268 (2.6)	69 (3.5)	276 (0.9) >	13 (2.0)	277 (3.5)
TERRITORIES						
Guam	0 (0.2)«	*** (***)	54 (1.0)»	234 (1.4)	45 (0.9)«	238 (1.6) >
Virgin Islands	3 (0.4)»	*** (***)	27 (1.2)«	223 (1.9)	71 (1.3)»	221 (1.4) >

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.85 | **Students' Reports on the Frequency of Computer Use for Schoolwork**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Almost Every Day		Once or Twice a Week		Once or Twice a Month		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	6 (0.7)	202 (2.3)	18 (1.3)	216 (1.8)	10 (0.6)	233 (1.9)	66 (1.5)	217 (1.0)
Northeast	3 (0.7)	*** (***)	13 (1.9)	221 (6.1)	14 (1.7)	240 (3.4)	69 (2.5)	220 (2.3)
Southeast	9 (2.0)	192 (4.4)!	16 (2.4)	206 (2.7)	7 (1.1)	224 (4.2)	68 (2.4)	210 (2.3)
Central	5 (1.0)	212 (4.6)!	15 (3.1)	219 (4.4)!	11 (1.4)	231 (3.2)	69 (3.7)	222 (2.6)
West	7 (1.2)	205 (4.9)	24 (2.7)	217 (3.0)	9 (0.7)	233 (3.7)	59 (3.0)	216 (1.5)
STATES								
Alabama	6 (0.7)	192 (2.6)	21 (2.3)	201 (2.6)	6 (0.6)	214 (3.8)	66 (2.4)	209 (1.7)
Arizona	6 (1.0)	198 (4.2)	20 (2.3)	213 (3.0)	8 (0.6)	226 (2.4)	65 (2.3)	214 (1.0)
Arkansas	16 (1.7)	206 (2.2)	20 (1.9)	208 (1.4)	4 (0.5)	218 (5.3)	59 (2.6)	209 (1.1)
California	7 (1.2)	193 (3.9)	25 (2.5)	207 (2.6)	10 (1.0)	219 (2.9)	57 (2.7)	207 (1.6)
Colorado	5 (0.5)	217 (3.6)	21 (1.7)	219 (1.8)	12 (0.9)	228 (2.2)	62 (1.8)	219 (1.2)
Connecticut	10 (1.5)	214 (4.2)	16 (1.6)	223 (2.5)	13 (1.0)	238 (2.1)	62 (2.1)	226 (1.3)
Delaware	6 (0.7)	208 (2.5)	11 (0.8)	214 (3.2)	9 (0.7)	231 (3.7)	74 (1.1)	216 (0.9)
Dist. Columbia	10 (0.6)	179 (1.8)	18 (0.7)	191 (1.4)	8 (0.5)	206 (3.0)	64 (0.9)	192 (0.8)
Florida	8 (1.4)	203 (3.9)	19 (1.8)	211 (2.1)	8 (0.7)	227 (3.2)	64 (2.4)	212 (1.7)
Georgia	10 (1.3)	194 (3.0)	17 (2.0)	207 (2.3)	8 (0.7)	224 (3.0)	65 (2.3)	218 (1.4)
Hawaii	5 (0.5)	190 (3.5)	29 (2.1)	212 (2.0)	9 (0.6)	224 (2.6)	57 (2.0)	214 (1.4)
Idaho	3 (0.4)	214 (3.5)	21 (2.2)	222 (1.9)	7 (0.7)	230 (1.8)	68 (2.4)	219 (1.1)
Indiana	5 (0.6)	215 (4.8)	21 (1.9)	222 (1.8)	8 (0.6)	229 (2.1)	66 (1.9)	218 (1.3)
Iowa	7 (1.1)	227 (3.0)	15 (1.8)	227 (2.9)	12 (0.9)	237 (2.2)	66 (2.2)	228 (1.2)
Kentucky	8 (1.5)	207 (4.6)	19 (1.8)	212 (1.7)	6 (0.7)	225 (4.2)	68 (2.1)	214 (0.9)
Louisiana	6 (0.8)	186 (3.0)	14 (1.9)	200 (3.2)	6 (1.1)	217 (4.9)	74 (2.4)	204 (1.5)
Maine	3 (0.6)	*** (***)	15 (1.7)	233 (2.0)	15 (1.2)	238 (1.9)	67 (2.4)	229 (1.0)
Maryland	11 (1.9)	206 (6.1)	21 (1.8)	216 (2.3)	10 (0.8)	228 (2.3)	58 (2.3)	216 (1.6)
Massachusetts	5 (1.3)	219 (5.6)!	21 (2.1)	223 (2.5)	13 (0.9)	234 (2.4)	61 (2.6)	225 (1.3)
Michigan	5 (1.0)	206 (4.6)	17 (1.8)	218 (2.7)	10 (0.9)	225 (2.6)	68 (2.3)	219 (1.9)
Minnesota	5 (0.9)	223 (3.6)	22 (1.5)	226 (1.8)	13 (1.1)	234 (1.9)	60 (1.9)	228 (0.9)
Mississippi	13 (1.7)	189 (2.3)	26 (2.7)	195 (2.3)	3 (0.5)	204 (4.1)	55 (2.9)	205 (1.3)
Missouri	6 (1.5)	217 (7.5)!	15 (1.8)	224 (2.3)	8 (0.8)	229 (2.8)	71 (2.3)	220 (1.4)
Nebraska	5 (1.1)	219 (5.3)!	18 (2.3)	225 (2.5)	11 (1.1)	234 (2.4)	66 (2.6)	223 (1.4)
New Hampshire	4 (0.8)	226 (2.7)	18 (1.9)	232 (1.8)	14 (0.8)	239 (1.8)	64 (2.2)	226 (1.3)
New Jersey	5 (0.8)	215 (4.0)	21 (2.3)	230 (2.9)	10 (1.0)	235 (2.5)	63 (2.6)	225 (1.5)
New Mexico	5 (0.6)	205 (5.2)	22 (2.0)	214 (2.0)	6 (0.8)	219 (3.9)	68 (2.1)	211 (1.5)
New York	6 (1.3)	215 (4.7)!	25 (2.6)	216 (2.2)	9 (0.8)	227 (3.1)	60 (3.1)	217 (1.4)
North Carolina	9 (1.4)	199 (3.2)	23 (2.3)	210 (2.1)	7 (0.6)	224 (2.8)	61 (2.6)	212 (1.4)
North Dakota	4 (0.9)	216 (3.5)!	14 (1.9)	230 (1.8)	7 (0.8)	234 (2.4)	75 (2.3)	227 (0.9)
Ohio	4 (0.7)	204 (5.9)	10 (0.9)	215 (2.3)	10 (0.9)	231 (2.6)	76 (1.6)	217 (1.2)
Oklahoma	6 (1.5)	215 (3.5)!	22 (2.4)	220 (1.8)	6 (0.7)	229 (3.2)	66 (2.6)	218 (1.2)
Pennsylvania	6 (1.7)	221 (8.6)!	20 (2.0)	221 (2.3)	10 (0.8)	234 (2.3)	64 (2.6)	223 (1.5)
Rhode Island	6 (1.2)	202 (4.0)	14 (1.6)	208 (2.7)	10 (0.8)	224 (2.9)	69 (2.1)	215 (1.7)
South Carolina	13 (1.8)	192 (2.2)	16 (1.7)	211 (2.6)	7 (0.6)	220 (2.8)	64 (2.4)	214 (1.1)
Tennessee	6 (1.2)	196 (3.6)	13 (1.5)	206 (3.0)	6 (0.6)	216 (3.1)	74 (1.9)	211 (1.4)
Texas	9 (2.0)	210 (4.1)!	26 (2.5)	218 (1.9)	7 (0.6)	227 (3.1)	56 (3.2)	217 (1.5)
Utah	12 (2.2)	221 (2.7)	26 (2.7)	226 (1.5)	10 (0.9)	228 (2.1)	52 (2.9)	221 (1.3)
Virginia	6 (1.0)	211 (3.1)	19 (1.6)	215 (2.4)	13 (1.6)	230 (3.4)	62 (2.5)	220 (1.5)
West Virginia	6 (1.0)	209 (3.9)	15 (1.9)	214 (2.3)	7 (0.7)	227 (2.4)	71 (2.5)	213 (1.1)
Wisconsin	7 (1.3)	213 (5.2)!	17 (1.7)	228 (2.3)	10 (0.8)	234 (2.2)	66 (2.2)	228 (1.0)
Wyoming	9 (1.5)	220 (2.5)	29 (2.1)	225 (1.4)	9 (0.7)	231 (2.0)	54 (2.5)	223 (1.1)
TERRITORY								
Guam	10 (0.7)	173 (2.7)	33 (0.9)	191 (1.3)	5 (0.4)	186 (5.0)	53 (1.0)	195 (1.2)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.85 | **Students' Reports on the Frequency of Computer Use for School Work (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Almost Every Day		Once or Twice a Week		Once or Twice a Month		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	8 (0.8)	266 (2.6)	13 (0.7)	271 (2.1)	19 (0.9)	281 (1.8)	60 (1.3)	264 (0.8)
Northeast	6 (1.2)	*** (***)	15 (1.5)	272 (5.2)	21 (1.8)	284 (4.4)	58 (3.5)	264 (2.4)
Southeast	7 (0.7)	252 (4.3)	8 (1.1)	262 (3.5)	14 (1.2)	270 (2.9)	71 (1.8)	258 (1.2)
Central	7 (1.7)	273 (4.1)!	14 (1.8)	276 (3.3)	23 (1.8)	284 (3.0)	57 (3.0)	271 (2.0)
West	11 (2.0)	268 (3.8)	15 (1.1)	272 (3.6)	19 (1.9)	282 (2.8)	55 (2.7)	264 (2.1)
STATES								
Alabama	8 (0.9)	247 (2.9)	10 (1.1)	251 (3.7)	13 (1.0)	262 (3.3)	70 (1.9)	253 (1.7)
Arizona	8 (0.8)	266 (3.1)	12 (1.0)	267 (3.2)	20 (1.3)	278 (2.3)	60 (2.0)	263 (1.1)
Arkansas	8 (1.1)	247 (3.3)	11 (1.2)	254 (2.2)	10 (0.7)	269 (2.9)	71 (1.7)	257 (1.3)
California	7 (0.6)	268 (4.3)	15 (1.7)	273 (3.5)	22 (1.2)	272 (2.4)	56 (1.9)	259 (1.5)
Colorado	11 (0.8)	274 (2.6)	17 (1.1)	282 (2.1)	24 (1.1)	279 (1.7)	48 (1.8)	266 (1.2)
Connecticut	5 (0.5)	274 (4.8)	18 (1.3)	278 (2.8)	27 (1.0)	285 (1.7)	50 (1.6)	269 (1.6)
Delaware	6 (0.5)	258 (4.9)	13 (0.7)	267 (2.4)	18 (1.1)	277 (2.2)	63 (1.2)	260 (1.1)
Dist. Columbia	9 (0.8)	230 (3.6)	17 (1.1)	240 (2.6)	20 (1.3)	248 (2.4)	53 (1.2)	234 (1.4)
Florida	7 (0.8)	267 (3.4)	9 (0.8)	265 (3.0)	16 (1.0)	274 (2.7)	68 (1.5)	257 (1.4)
Georgia	7 (0.8)	248 (3.8)	10 (1.0)	260 (3.1)	16 (1.2)	272 (2.0)	67 (1.8)	259 (1.2)
Hawaii	7 (0.5)	262 (3.6)	11 (0.7)	266 (3.0)	20 (0.9)	267 (2.0)	63 (1.0)	257 (0.9)
Idaho	10 (1.4)	279 (2.6)	10 (0.8)	278 (2.2)	21 (1.1)	282 (1.7)	58 (1.8)	273 (0.9)
Indiana	6 (0.6)	274 (3.3)	12 (1.1)	275 (2.5)	19 (0.9)	281 (2.4)	63 (1.8)	266 (1.3)
Iowa	9 (1.1)	282 (2.1)	18 (1.8)	287 (1.7)	25 (1.3)	290 (1.5)	48 (2.1)	279 (1.2)
Kentucky	5 (0.8)	261 (3.2)	13 (1.7)	266 (2.8)	18 (1.3)	271 (2.1)	63 (1.9)	260 (1.3)
Louisiana	7 (1.1)	246 (4.5)	10 (1.0)	253 (3.1)	12 (0.8)	260 (3.0)	71 (1.7)	250 (1.6)
Maine	11 (1.0)	282 (2.5)	26 (1.7)	285 (2.0)	24 (1.2)	284 (1.5)	39 (2.0)	271 (1.2)
Maryland	4 (0.5)	266 (4.1)	16 (1.7)	264 (2.8)	27 (1.3)	278 (1.8)	53 (2.1)	262 (1.7)
Massachusetts	5 (0.8)	273 (5.4)	17 (1.2)	281 (2.3)	25 (1.3)	284 (1.7)	53 (2.0)	266 (1.3)
Michigan	10 (1.1)	269 (2.2)	12 (1.2)	279 (2.7)	18 (1.0)	279 (2.3)	60 (1.9)	264 (1.4)
Minnesota	5 (0.6)	285 (3.7)	11 (1.0)	286 (2.4)	32 (1.1)	288 (1.3)	52 (1.4)	279 (1.3)
Mississippi	7 (0.8)	239 (3.7)	13 (1.4)	236 (2.7)	9 (0.9)	259 (2.8)	71 (1.8)	250 (1.3)
Missouri	7 (0.7)	270 (3.0)	10 (0.8)	276 (2.9)	16 (1.1)	283 (1.7)	67 (1.7)	269 (1.1)
Nebraska	10 (1.4)	278 (2.4)	16 (1.5)	283 (2.5)	23 (1.4)	283 (1.9)	51 (2.5)	274 (1.1)
New Hampshire	7 (0.9)	279 (2.9)	18 (1.1)	286 (1.8)	26 (1.0)	283 (1.4)	48 (1.7)	273 (1.1)
New Jersey	6 (0.6)	278 (4.0)	19 (1.4)	280 (2.5)	21 (1.3)	285 (1.4)	54 (1.7)	266 (2.0)
New Mexico	11 (1.1)	264 (2.1)	11 (0.8)	266 (1.9)	21 (1.1)	265 (1.5)	56 (1.6)	257 (1.1)
New York	6 (0.7)	277 (5.2)	16 (1.4)	282 (3.9)	21 (1.1)	281 (2.5)	57 (1.8)	266 (2.0)
North Carolina	5 (0.7)	251 (3.6)	13 (1.1)	255 (3.1)	18 (0.9)	270 (1.9)	64 (1.5)	259 (1.0)
North Dakota	8 (1.1)	284 (2.9)	11 (1.2)	286 (3.2)	23 (1.4)	287 (1.6)	59 (1.7)	281 (1.3)
Ohio	5 (0.8)	271 (4.5)	10 (0.9)	271 (3.1)	19 (1.2)	276 (2.1)	66 (1.7)	266 (1.7)
Oklahoma	7 (0.9)	270 (3.7)	10 (1.1)	269 (2.8)	18 (1.5)	277 (2.2)	65 (2.1)	266 (1.3)
Pennsylvania	5 (0.7)	274 (4.2)	15 (1.0)	272 (2.7)	21 (1.2)	285 (2.1)	58 (1.4)	267 (1.4)
Rhode Island	5 (0.4)	268 (3.3)	16 (0.8)	273 (1.6)	22 (1.0)	272 (2.0)	57 (1.2)	263 (1.4)
South Carolina	12 (1.1)	248 (2.3)	12 (1.1)	262 (2.6)	16 (1.0)	275 (1.5)	60 (1.5)	261 (1.2)
Tennessee	4 (0.6)	261 (4.7)	8 (1.0)	259 (3.2)	14 (0.8)	265 (2.5)	75 (1.4)	258 (1.4)
Texas	15 (1.5)	266 (2.4)	14 (0.9)	271 (2.5)	16 (1.0)	278 (2.9)	55 (1.7)	263 (1.7)
Utah	10 (0.8)	276 (2.8)	18 (0.9)	280 (1.4)	29 (1.2)	279 (1.4)	44 (1.4)	270 (1.2)
Virginia	7 (1.1)	267 (3.0)	11 (0.7)	274 (2.4)	24 (1.2)	279 (1.7)	57 (1.7)	264 (1.4)
West Virginia	7 (0.6)	257 (3.5)	10 (0.9)	258 (2.2)	16 (1.1)	270 (2.0)	68 (1.5)	258 (1.1)
Wisconsin	7 (0.8)	279 (3.6)	18 (1.9)	283 (2.7)	25 (1.7)	284 (1.6)	51 (2.8)	274 (1.6)
Wyoming	12 (0.8)	276 (2.1)	14 (1.0)	279 (1.9)	25 (1.0)	279 (1.3)	49 (1.5)	271 (1.2)
TERRITORIES								
Guam	6 (0.8)	257 (5.6)	21 (1.0)	236 (2.7)	12 (1.0)	250 (2.9)	61 (1.4)	242 (1.6)
Virgin Islands	6 (0.8)	231 (4.1)	7 (0.7)	225 (4.6)	7 (0.7)	233 (3.3)	80 (1.3)	223 (1.2)

TABLE A.86 | **Teachers' Reports on the Frequency of Computer Use in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	55 (3.3)	218 (1.5)	20 (2.2)	218 (2.8)	24 (2.9)	214 (2.5)
Northeast	43 (8.9)	223 (4.1)!	25 (6.9)	221 (5.7)!	32 (7.8)	217 (5.3)!
Southeast	51 (6.0)	207 (1.7)	21 (3.1)	214 (5.5)	27 (5.8)	203 (3.6)!
Central	61 (6.2)	222 (2.6)	16 (4.3)	224 (3.7)!	23 (5.0)	227 (5.0)!
West	63 (5.0)	220 (2.6)	19 (3.5)	216 (7.2)!	18 (4.2)	212 (3.2)!
STATES						
Alabama	63 (3.8)	208 (2.1)	13 (3.1)	206 (4.0)!	24 (3.5)	205 (2.9)
Arizona	59 (3.4)	214 (1.5)	20 (2.3)	217 (2.4)	21 (3.0)	213 (2.6)
Arkansas	63 (4.9)	209 (1.5)	8 (1.7)	212 (3.3)	29 (4.6)	208 (2.8)
California	64 (3.9)	208 (2.0)	15 (2.6)	207 (4.8)	21 (3.1)	204 (3.7)
Colorado	51 (3.3)	220 (1.6)	25 (2.8)	219 (2.6)	24 (2.9)	221 (2.0)
Connecticut	52 (3.7)	228 (1.9)	19 (2.0)	229 (2.4)	30 (3.6)	226 (3.0)
Delaware	25 (1.1)	219 (2.1)	28 (1.0)	216 (1.3)	48 (1.3)	218 (1.4)
Dist. Columbia	42 (0.7)	195 (1.4)	23 (0.8)	193 (1.6)	35 (1.0)	185 (1.4)
Florida	72 (2.8)	213 (1.6)	15 (2.1)	212 (3.0)	13 (2.0)	212 (2.6)
Georgia	57 (3.7)	212 (1.9)	24 (3.3)	215 (2.5)	20 (2.9)	218 (2.4)
Hawaii	44 (3.4)	212 (2.2)	15 (2.2)	215 (2.9)	41 (3.2)	214 (2.0)
Idaho	54 (3.1)	220 (1.5)	17 (2.3)	221 (2.1)	29 (3.1)	220 (1.4)
Indiana	54 (3.6)	219 (1.4)	26 (3.2)	221 (2.0)	20 (3.7)	217 (3.0)
Iowa	50 (4.1)	230 (1.5)	27 (2.6)	229 (1.9)	23 (3.3)	227 (2.2)
Kentucky	50 (3.2)	214 (1.6)	19 (2.9)	215 (2.7)	31 (3.1)	211 (1.8)
Louisiana	28 (3.9)	204 (2.7)	12 (2.5)	212 (4.4)!	60 (4.6)	200 (2.0)
Maine	42 (4.1)	231 (1.4)	21 (2.8)	232 (2.1)	37 (3.9)	229 (1.8)
Maryland	54 (3.8)	219 (2.1)	18 (2.9)	218 (3.3)	28 (3.7)	217 (2.9)
Massachusetts	53 (4.3)	226 (2.0)	17 (2.6)	229 (2.5)	30 (3.9)	227 (2.7)
Michigan	47 (3.8)	222 (2.5)	25 (3.1)	219 (2.7)	29 (3.2)	213 (4.0)
Minnesota	49 (3.9)	229 (1.3)	26 (3.5)	230 (2.3)	25 (3.6)	221 (2.6)
Mississippi	52 (4.6)	200 (1.8)	8 (2.4)	197 (5.3)!	40 (4.4)	201 (2.4)
Missouri	53 (3.8)	223 (2.3)	17 (2.5)	220 (3.0)	30 (3.8)	221 (2.3)
Nebraska	56 (4.3)	225 (1.7)	23 (3.7)	226 (2.8)	21 (3.7)	222 (2.4)
New Hampshire	47 (3.9)	229 (1.5)	27 (2.9)	232 (2.4)	26 (3.7)	225 (2.4)
New Jersey	39 (4.1)	228 (2.5)	20 (3.2)	234 (2.5)	41 (4.0)	222 (2.6)
New Mexico	54 (3.8)	215 (1.7)	17 (2.6)	210 (2.1)	29 (4.0)	207 (2.4)
New York	48 (4.1)	218 (2.1)	16 (1.6)	220 (2.5)	36 (4.1)	214 (2.7)
North Carolina	64 (4.0)	212 (1.4)	17 (2.3)	212 (2.7)	19 (3.1)	213 (3.3)
North Dakota	52 (4.1)	226 (1.2)	24 (3.7)	229 (2.4)	24 (3.5)	230 (2.0)
Ohio	41 (4.2)	219 (2.1)	22 (3.0)	216 (2.6)	37 (4.1)	216 (1.9)
Oklahoma	57 (4.1)	220 (1.3)	18 (2.8)	220 (2.9)	25 (3.6)	219 (2.2)
Pennsylvania	42 (4.1)	224 (2.2)	26 (3.3)	226 (2.5)	32 (4.2)	220 (3.3)
Rhode Island	38 (3.7)	215 (2.3)	21 (2.7)	216 (2.2)	41 (4.1)	212 (2.8)
South Carolina	54 (3.5)	210 (1.5)	21 (3.0)	216 (2.6)	25 (2.8)	212 (2.3)
Tennessee	53 (4.4)	208 (2.1)	17 (3.1)	211 (3.2)	29 (3.8)	213 (2.5)
Texas	61 (4.5)	216 (2.0)	12 (2.4)	224 (2.5)!	27 (3.9)	216 (3.0)
Utah	60 (4.0)	223 (1.3)	14 (2.5)	228 (2.4)	26 (3.1)	221 (2.3)
Virginia	56 (2.9)	220 (1.8)	25 (2.5)	219 (2.8)	19 (2.5)	219 (3.4)
West Virginia	52 (4.1)	215 (1.6)	15 (2.5)	213 (2.3)	33 (3.9)	211 (1.8)
Wisconsin	54 (3.4)	226 (1.8)	22 (2.5)	233 (2.2)	24 (3.4)	229 (1.9)
Wyoming	64 (4.1)	225 (1.2)	20 (2.8)	223 (1.7)	16 (2.8)	225 (2.4)
TERRITORY						
Guam	75 (0.8)	192 (0.9)	7 (0.8)	182 (3.9)	18 (0.7)	193 (2.1)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.86 | **Teachers' Reports on the Frequency of Computer Use in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	8 (1.3)	252 (3.9)	18 (2.1)	266 (2.3)	74 (2.1)	270 (1.4)
Northeast	9 (2.5)	240 (7.3)!	11 (2.8)	266 (6.9)!	80 (3.7)	271 (3.9)
Southeast	6 (2.5)	251 (6.3)!	26 (4.4)	265 (2.6)	67 (4.5)	262 (1.9)
Central	8 (3.1)	265 (9.0)!	17 (3.6)	273 (3.9)!	75 (3.9)	276 (3.1)
West	9 (2.0)	253 (7.7)!	17 (3.9)	261 (5.8)!	74 (4.1)	270 (2.0)
STATES						
Alabama	11 (2.5)	243 (3.8)!	20 (2.8)<	256 (4.0)	69 (3.8)>	252 (2.3)
Arizona	15 (3.1)	256 (3.4)!	12 (2.7)<	267 (4.3)!	73 (4.6)	266 (1.5)
Arkansas	17 (2.9)	247 (4.2)	12 (2.3)	257 (3.3)!	71 (3.4)	258 (1.6)
California	13 (2.6)	258 (4.8)!>	16 (2.1)<	254 (4.6)	72 (3.4)>	263 (1.9)
Colorado	7 (1.3)	268 (5.6)	22 (2.8)<	275 (2.9)	71 (3.0)>	271 (1.2)
Connecticut	10 (2.2)	252 (6.2)!	21 (2.8)	277 (2.7)	69 (3.5)>	275 (2.0)>
Delaware	7 (0.5)	245 (5.7)	19 (0.7)«	259 (2.4)<	74 (0.7)»	265 (1.0)»
Dist. Columbia	15 (0.8)«	238 (2.6)	26 (1.0)«	233 (1.8)	59 (1.3)»	236 (1.6)>
Florida	10 (1.8)	251 (3.8)	17 (1.9)	262 (3.7)	72 (2.6)	260 (1.7)
Georgia	12 (2.0)	250 (3.6)	14 (1.8)«	258 (3.8)	75 (2.9)»	259 (1.5)
Hawaii	4 (0.3)	236 (4.4)	17 (0.8)«	256 (2.3)>	78 (0.8)»	259 (0.9)»
Idaho	7 (1.4)	273 (4.5)	12 (2.2)	274 (2.6)	80 (2.6)	275 (0.8)
Indiana	8 (1.9)	270 (3.3)!	21 (3.1)<	269 (3.1)	71 (3.7)	270 (1.5)
Iowa	5 (1.8)	276 (5.3)!	18 (3.4)«	282 (3.0)	77 (3.5)»	284 (1.2)>
Kentucky	9 (2.5)	248 (3.9)!	25 (3.6)	264 (2.9)	66 (4.2)	264 (1.3)>
Louisiana	13 (3.2)	252 (5.4)!	7 (1.9)	256 (5.7)!	80 (3.6)	249 (1.7)
Maine[1]	10 (3.2)	275 (5.2)!	27 (4.2)	278 (2.7)	62 (5.0)	279 (1.1)
Maryland	10 (2.4)	258 (5.4)!	38 (3.4)	268 (2.6)	51 (4.0)>	266 (2.3)>
Massachusetts[1]	10 (2.7)	260 (6.6)!	19 (2.8)	270 (2.6)	71 (3.7)	274 (1.5)
Michigan	4 (1.6)	265 (7.9)!	14 (2.5)<	269 (6.1)	83 (2.8)>	266 (1.6)
Minnesota	4 (1.6)	279 (6.6)!	22 (3.7)«	282 (2.7)	74 (3.7)»	281 (1.2)>
Mississippi[1]	12 (2.7)	233 (4.0)!	11 (2.6)	238 (5.6)!	77 (3.9)	248 (1.5)
Missouri[1]	8 (2.6)	259 (5.0)!	17 (2.5)	269 (2.3)	75 (3.5)	273 (1.4)
Nebraska	9 (2.5)	277 (4.7)!	19 (3.1)	277 (2.9)	71 (3.6)	278 (1.3)
New Hampshire	4 (2.0)<	280 (5.0)!	22 (3.1)«	280 (2.4)	74 (3.3)»	277 (1.1)>
New Jersey	15 (2.6)	245 (5.2)	18 (3.0)<	270 (4.6)	67 (4.0)	278 (1.9)
New Mexico	5 (0.9)«	253 (3.4)	22 (3.0)«	256 (1.5)	73 (3.0)»	261 (1.1)
New York	12 (2.8)	237 (8.2)!	14 (1.8)«	272 (3.3)	74 (3.1)>	269 (2.2)>
North Carolina	9 (2.3)	248 (4.6)!	29 (3.8)	255 (2.0)	62 (3.9)>	260 (1.5)»
North Dakota	7 (2.0)	283 (3.1)!	15 (2.6)«	278 (2.1)	78 (3.4)»	284 (1.3)
Ohio	6 (1.5)	252 (5.5)!	20 (3.4)<	271 (3.9)	75 (3.8)>	270 (1.6)
Oklahoma	13 (2.4)	260 (3.0)	15 (3.2)	266 (2.8)!	72 (3.7)	269 (1.5)>
Pennsylvania	5 (1.4)	259 (5.7)!	21 (3.6)<	277 (3.1)	74 (4.2)>	270 (1.6)
Rhode Island	6 (0.4)«	260 (1.7)	20 (0.5)«	265 (1.6)>	74 (0.6)»	266 (0.9)»
South Carolina[1]	15 (2.7)	240 (4.1)	14 (2.6)	258 (3.3)	70 (3.2)	265 (1.6)
Tennessee[1]	9 (2.1)	248 (4.6)!	19 (3.4)	252 (2.7)	72 (4.0)	260 (1.7)
Texas	10 (2.4)	257 (5.0)!	13 (2.4)	266 (5.3)	77 (3.4)	265 (1.6)»
Utah[1]	7 (1.3)	265 (3.4)	14 (1.8)	273 (2.2)	79 (2.2)	275 (1.0)
Virginia	7 (1.7)	258 (5.7)!	24 (2.5)«	268 (2.7)	68 (2.9)»	268 (1.4)>
West Virginia	9 (2.1)	248 (3.6)!	15 (2.3)<	256 (2.6)	76 (3.1)>	260 (1.2)
Wisconsin	9 (2.5)	270 (4.9)!	26 (3.7)	277 (3.0)	65 (4.8)>	280 (1.9)
Wyoming	8 (1.7)«	264 (4.9)!	33 (3.3)<	276 (1.4)>	60 (3.6)»	275 (1.2)
TERRITORIES						
Guam	12 (0.5)	242 (2.7)>	8 (0.9)	228 (7.5)	80 (1.0)	234 (1.2)
Virgin Islands	0 (0.0)	*** (***)	12 (0.7)«	217 (2.6)	88 (0.7)»	221 (1.3)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

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TABLE A.87 | **Students' Reports on the Frequency of Computer Use in Mathematics Class**

PUBLIC SCHOOLS	Grade 4 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	33 (1.2)	214 (1.1)	9 (0.6)	227 (1.8)	58 (1.4)	218 (1.0)
Northeast	26 (2.2)	218 (2.7)	10 (1.4)	232 (4.6)	64 (3.1)	224 (2.6)
Southeast	34 (1.6)	203 (2.0)	7 (1.1)	217 (4.1)	59 (1.9)	212 (2.3)
Central	30 (2.3)	220 (2.4)	12 (1.6)	228 (2.6)	59 (2.9)	222 (2.5)
West	40 (2.7)	217 (2.1)	9 (1.0)	228 (3.3)	51 (3.0)	216 (1.9)
STATES						
Alabama	33 (2.2)	203 (2.1)	9 (0.8)	213 (3.7)	59 (2.3)	209 (1.7)
Arizona	30 (1.6)	213 (2.0)	9 (0.6)	220 (2.6)	61 (1.6)	214 (1.1)
Arkansas	43 (2.9)	207 (1.2)	5 (0.4)	212 (3.4)	52 (2.9)	210 (1.3)
California	36 (2.4)	204 (2.5)	10 (0.9)	210 (2.3)	54 (2.2)	210 (1.9)
Colorado	29 (1.6)	220 (1.6)	13 (0.7)	226 (1.9)	58 (1.5)	219 (1.3)
Connecticut	32 (2.0)	223 (1.7)	13 (1.1)	232 (2.1)	55 (2.2)	227 (1.6)
Delaware	23 (0.7)	213 (1.8)	9 (0.8)	218 (3.1)	68 (0.9)	218 (0.9)
Dist. Columbia	29 (0.8)	188 (1.1)	9 (0.6)	198 (3.0)	62 (0.9)	193 (0.7)
Florida	33 (1.9)	211 (1.7)	9 (0.7)	216 (3.3)	57 (1.7)	213 (1.7)
Georgia	33 (2.7)	205 (2.1)	10 (0.9)	220 (2.7)	57 (2.5)	219 (1.3)
Hawaii	35 (1.6)	209 (2.0)	8 (0.6)	215 (2.9)	57 (1.5)	216 (1.4)
Idaho	27 (1.6)	220 (1.5)	9 (0.7)	224 (2.2)	63 (1.7)	220 (1.0)
Indiana	31 (1.8)	219 (1.7)	11 (0.7)	226 (2.0)	59 (1.8)	219 (1.2)
Iowa	27 (1.7)	227 (1.9)	14 (1.0)	236 (2.1)	59 (1.8)	229 (1.1)
Kentucky	32 (2.1)	210 (1.8)	8 (0.7)	220 (3.1)	61 (2.1)	215 (1.1)
Louisiana	21 (1.9)	195 (2.2)	7 (0.8)	208 (4.3)	72 (2.2)	205 (1.5)
Maine	24 (2.1)	229 (2.0)	14 (1.1)	233 (2.3)	62 (2.1)	232 (1.1)
Maryland	37 (2.3)	214 (2.4)	10 (0.7)	222 (2.9)	53 (2.3)	218 (1.5)
Massachusetts	31 (2.1)	222 (1.8)	12 (0.9)	231 (2.6)	57 (2.1)	227 (1.3)
Michigan	30 (2.0)	216 (2.3)	11 (0.8)	227 (2.1)	59 (2.0)	219 (2.1)
Minnesota	31 (1.4)	226 (1.3)	15 (0.9)	232 (1.7)	54 (1.5)	228 (1.1)
Mississippi	41 (2.7)	196 (1.6)	6 (0.6)	199 (4.2)	53 (2.5)	205 (1.3)
Missouri	28 (1.6)	220 (2.1)	10 (0.9)	226 (2.5)	62 (2.0)	222 (1.4)
Nebraska	29 (1.9)	221 (1.9)	12 (0.9)	235 (2.2)	59 (1.9)	224 (1.4)
New Hampshire	27 (2.0)	231 (2.0)	13 (1.0)	232 (1.9)	60 (2.4)	227 (1.3)
New Jersey	27 (2.1)	225 (2.2)	10 (1.0)	231 (2.6)	63 (2.4)	226 (1.6)
New Mexico	27 (1.6)	211 (1.6)	7 (0.7)	222 (4.1)	66 (1.7)	212 (1.6)
New York	33 (2.2)	216 (2.0)	10 (0.8)	223 (2.7)	58 (2.3)	218 (1.3)
North Carolina	38 (2.2)	210 (1.5)	10 (0.7)	218 (2.2)	52 (2.2)	213 (1.4)
North Dakota	28 (2.2)	226 (1.3)	9 (0.9)	232 (2.0)	63 (2.0)	228 (1.1)
Ohio	20 (1.5)	216 (2.2)	11 (1.0)	228 (2.5)	69 (1.9)	217 (1.3)
Oklahoma	31 (1.9)	219 (1.5)	8 (0.6)	223 (2.9)	62 (1.8)	219 (1.2)
Pennsylvania	31 (2.2)	222 (2.0)	12 (0.8)	230 (2.2)	57 (2.2)	224 (1.5)
Rhode Island	28 (2.0)	210 (2.5)	11 (0.9)	218 (2.8)	61 (2.3)	216 (1.8)
South Carolina	32 (2.1)	206 (1.8)	9 (0.7)	217 (2.6)	59 (2.1)	214 (1.2)
Tennessee	27 (2.0)	204 (2.1)	7 (0.6)	208 (2.8)	65 (2.0)	212 (1.5)
Texas	40 (2.8)	220 (1.8)	7 (0.6)	217 (3.1)	54 (2.8)	216 (1.4)
Utah	41 (2.2)	225 (1.3)	9 (0.8)	226 (2.5)	50 (2.0)	221 (1.3)
Virginia	30 (1.9)	216 (1.7)	13 (1.0)	226 (3.0)	57 (1.9)	221 (1.5)
West Virginia	29 (2.0)	212 (1.9)	10 (0.9)	222 (1.8)	61 (2.2)	214 (1.2)
Wisconsin	30 (1.8)	223 (1.7)	12 (0.9)	234 (2.2)	59 (2.0)	229 (1.1)
Wyoming	40 (1.6)	225 (1.1)	10 (0.7)	225 (1.9)	50 (1.7)	224 (1.2)
TERRITORY						
Guam	50 (1.2)	191 (1.1)	5 (0.5)	178 (4.5)	45 (1.2)	194 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.87 | **Students' Reports on the Frequency of Computer Use in Mathematics Class (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	At Least Weekly		Less than Once a Week		Never or Hardly Ever	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	15 (0.9)	254 (1.9)	12 (0.8)	270 (2.2)	73 (1.3)	269 (1.0)
Northeast	17 (1.6)	250 (3.5)	10 (1.2)	264 (5.6)	73 (2.4)	273 (3.4)
Southeast	12 (1.4)	243 (3.9)	10 (1.5)	264 (2.5)	78 (2.5)	260 (1.4)
Central	17 (2.8)	265 (3.7)	14 (2.0)	278 (3.1)	69 (3.3)	274 (2.1)
West	16 (1.4)	254 (3.7)	12 (1.5)	270 (5.3)	72 (2.0)	269 (1.9)
STATES						
Alabama	15 (1.7)	241 (3.0)	11 (1.3)	254 (2.5)	74 (2.3)	253 (1.8)
Arizona	14 (1.7)	258 (2.6)	12 (1.3)	268 (2.9)	74 (2.6)	266 (1.2)
Arkansas	20 (2.0)	246 (2.8)	9 (0.9)	262 (3.7)	71 (2.2)	257 (1.3)
California	14 (1.3)	253 (3.8)	13 (1.1)	257 (2.7)	73 (1.6)	262 (1.8)
Colorado	13 (0.9)	266 (2.1)	14 (0.8)	273 (2.2)	73 (1.3)	273 (1.1) >
Connecticut	14 (1.4)	256 (3.5)	14 (1.0)	278 (2.5)	72 (1.8)	276 (1.4)
Delaware	12 (0.8) «	247 (3.5)	12 (0.7)	265 (2.9)	77 (0.8) >	264 (1.0)
Dist. Columbia	21 (0.9)	230 (1.9)	14 (0.7)	237 (2.5)	66 (1.0)	235 (1.3)
Florida	13 (1.2)	251 (2.7) >	10 (0.9)	261 (3.6)	78 (1.5)	260 (1.4)
Georgia	11 (0.9)	241 (2.2)	11 (1.1)	263 (2.5)	78 (1.4) >	261 (1.3)
Hawaii	12 (0.7)	243 (2.8)	12 (0.8)	251 (2.3)	76 (0.9)	260 (1.0) »
Idaho	13 (1.4)	272 (1.9)	10 (0.9)	275 (2.7)	76 (1.6)	275 (0.8)
Indiana	11 (1.6)	268 (2.7) >	13 (1.1)	270 (2.5)	75 (2.1)	270 (1.2)
Iowa	14 (1.1)	278 (1.9)	14 (1.1)	283 (2.1)	72 (1.5)	284 (1.0) »
Kentucky	14 (1.7)	255 (2.9)	12 (1.2)	260 (2.1)	75 (2.2)	263 (1.2) >
Louisiana	13 (1.5)	246 (3.4)	7 (0.9)	253 (3.8)	80 (2.1)	249 (1.7)
Maine[1]	16 (1.5)	275 (2.6)	11 (1.0)	280 (2.6)	73 (1.8)	278 (1.0)
Maryland	15 (1.7)	245 (2.7)	21 (1.4)	270 (2.1)	63 (2.5)	267 (1.7) >
Massachusetts[1]	11 (1.4)	261 (3.8)	11 (1.1)	269 (3.1)	78 (1.8)	274 (1.2)
Michigan	11 (0.7)	263 (2.8)	10 (0.8)	268 (3.1)	79 (1.2)	267 (1.5)
Minnesota	11 (1.0)	277 (2.5)	18 (1.1)	279 (2.0)	71 (1.5)	283 (1.0) »
Mississippi[1]	17 (1.7)	231 (2.5)	7 (0.9)	243 (3.3)	76 (2.2)	249 (1.4)
Missouri[1]	11 (1.1)	264 (2.5)	11 (0.8)	273 (2.5)	79 (1.5)	271 (1.4)
Nebraska	13 (1.2)	270 (2.6)	14 (1.3)	276 (3.1)	73 (1.9)	279 (1.1)
New Hampshire	13 (1.2)	271 (2.4)	12 (0.9)	276 (2.8)	75 (1.7) >	279 (1.1) >
New Jersey	15 (1.5)	261 (2.9)	10 (1.0)	275 (3.4)	76 (1.9)	273 (1.7)
New Mexico	12 (0.9)	255 (2.1)	12 (1.3)	259 (2.6)	77 (1.8)	259 (1.1)
New York	14 (1.2)	246 (4.1)	10 (0.8)	272 (3.1)	76 (1.4)	269 (2.1)
North Carolina	16 (1.6)	243 (2.4)	13 (1.3) <	260 (2.5) >	71 (2.0)	260 (1.1) »
North Dakota	10 (0.9) <	281 (3.0)	13 (0.9)	281 (1.7)	77 (1.3) »	283 (1.1)
Ohio	11 (1.0)	263 (2.6)	12 (1.3)	270 (2.9)	77 (1.9)	268 (1.6)
Oklahoma	13 (1.9)	260 (2.6)	12 (1.4)	268 (2.4)	76 (2.2)	269 (1.2)
Pennsylvania	12 (1.1)	262 (3.3)	12 (1.3)	272 (3.0)	76 (1.6)	272 (1.4)
Rhode Island	13 (0.6)	258 (2.2)	15 (0.7)	268 (1.8)	72 (0.7)	266 (1.0) »
South Carolina[1]	19 (1.5)	243 (2.1)	11 (1.2)	261 (2.3)	70 (1.9)	265 (1.2)
Tennessee[1]	10 (1.0)	251 (3.1)	9 (0.7)	251 (2.6)	81 (1.3)	260 (1.4)
Texas	17 (1.4)	254 (2.3)	11 (1.1)	274 (3.6)	72 (1.9)	265 (1.4) >
Utah[1]	16 (1.2)	272 (1.9)	15 (0.9)	271 (1.7)	69 (1.5)	275 (0.9)
Virginia	11 (0.9)	255 (2.6)	17 (1.2)	272 (2.5)	72 (1.4)	268 (1.3)
West Virginia	13 (1.4)	248 (2.2)	11 (1.0)	262 (2.1)	77 (1.8)	260 (1.1)
Wisconsin	16 (1.6)	270 (2.4)	16 (1.2)	280 (1.8)	68 (2.1)	279 (1.5)
Wyoming	15 (1.3)	268 (2.5)	16 (1.2) «	279 (1.3)	69 (1.9) »	275 (0.9)
TERRITORIES						
Guam	18 (0.9)	230 (2.9)	9 (0.5) »	227 (3.8)	74 (1.0)	237 (1.3)
Virgin Islands	8 (0.7)	224 (3.2) >	4 (0.5)	*** (***)	88 (0.8)	222 (1.2)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students.

TABLE A.88 | **Teachers' Reports on the Primary Use of Computers for Instruction**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Drill and Practice		Learning New Topics		Playing Learning Games		Do Not Use Computers	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	33 (2.8)	213 (1.9)	3 (0.8)	219 (7.9)!	40 (2.6)	221 (1.8)	25 (3.0)	213 (2.5)
Northeast	27 (5.9)	220 (4.8)!	3 (1.9)	*** (***)	35 (4.9)	227 (3.6)	35 (7.3)	217 (3.2)!
Southeast	39 (5.5)	205 (2.4)	1 (0.5)	*** (***)	31 (5.1)	211 (4.1)	29 (6.2)	205 (4.4)!
Central	33 (7.0)	221 (3.8)!	2 (1.3)	*** (***)	52 (5.7)	223 (3.7)	14 (4.6)	229 (8.8)!
West	30 (4.6)	211 (4.3)!	6 (2.4)	*** (***)	42 (4.8)	221 (2.8)	23 (5.5)	211 (3.3)!
STATES								
Alabama	41 (4.0)	208 (2.5)	0 (0.3)	*** (***)	38 (4.2)	209 (2.5)	20 (3.6)	200 (3.0)
Arizona	31 (3.2)	214 (2.1)	4 (1.2)	213 (6.4)!	41 (3.1)	216 (1.8)	23 (3.3)	213 (2.4)
Arkansas	50 (4.6)	208 (1.5)	5 (1.8)	212 (4.0)!	16 (2.6)	216 (3.2)	28 (4.5)	206 (2.5)
California	29 (3.2)	209 (2.6)	4 (1.5)	197 (7.3)!	47 (3.5)	210 (2.3)	20 (2.8)	202 (4.1)
Colorado	30 (2.8)	218 (2.0)	6 (1.8)	224 (4.0)!	45 (3.3)	222 (1.7)	20 (3.0)	217 (2.8)
Connecticut	28 (3.4)	226 (3.2)	3 (1.1)	*** (***)	48 (3.2)	230 (1.6)	21 (3.0)	220 (4.1)
Delaware	23 (1.2)	220 (1.7)	3 (0.3)	*** (***)	37 (0.8)	216 (1.3)	37 (0.9)	218 (1.7)
Dist. Columbia	28 (0.6)	191 (1.6)	7 (0.5)	201 (4.0)	28 (1.2)	197 (1.7)	37 (1.0)	184 (1.2)
Florida	39 (3.6)	210 (2.0)	3 (1.0)	217 (7.8)!	44 (3.5)	215 (1.7)	13 (2.8)	208 (3.1)!
Georgia	42 (3.5)	210 (2.4)	4 (1.4)	193 (6.7)!	42 (3.5)	219 (2.3)	13 (2.6)	217 (3.1)
Hawaii	13 (2.2)	203 (3.3)	4 (1.2)	212 (6.7)!	33 (2.9)	213 (2.4)	50 (3.1)	216 (1.9)
Idaho	28 (3.2)	220 (1.6)	1 (0.6)	*** (***)	42 (4.0)	220 (1.6)	29 (3.9)	222 (1.8)
Indiana	34 (3.3)	220 (1.6)	6 (1.8)	232 (3.4)!	47 (3.5)	218 (1.4)	13 (3.2)	220 (3.3)!
Iowa	33 (3.8)	229 (2.0)	4 (1.5)	221 (8.9)!	46 (3.7)	230 (1.5)	18 (3.1)	229 (3.0)
Kentucky	39 (4.1)	213 (2.1)	5 (1.6)	221 (6.2)!	25 (3.7)	214 (1.9)	31 (3.9)	213 (2.2)
Louisiana	18 (2.9)	200 (2.7)	2 (0.8)	*** (***)	22 (3.2)	212 (3.8)	58 (4.2)	200 (2.0)
Maine	17 (3.1)	229 (2.4)	5 (1.8)	236 (3.8)!	49 (3.8)	233 (1.4)	28 (3.9)	228 (2.5)
Maryland	35 (3.5)	217 (2.7)	8 (2.0)	228 (5.5)!	36 (3.3)	220 (2.6)	21 (3.2)	213 (3.5)
Massachusetts	25 (3.8)	222 (2.4)	9 (2.3)	230 (4.8)!	41 (4.4)	230 (2.2)	25 (3.5)	224 (3.0)
Michigan	26 (3.0)	218 (3.1)	4 (1.3)	217(10.6)!	48 (4.2)	220 (2.5)	22 (3.1)	211 (4.5)
Minnesota	44 (3.9)	228 (1.7)	3 (1.6)	*** (***)	40 (3.9)	226 (2.2)	12 (3.1)	227 (3.3)!
Mississippi	42 (3.7)	195 (1.7)	2 (1.1)	*** (***)	15 (3.0)	206 (3.9)!	40 (4.3)	201 (2.2)
Missouri	31 (3.2)	222 (2.0)	3 (1.5)	227 (5.1)!	38 (3.8)	225 (1.8)	27 (4.2)	218 (3.3)
Nebraska	34 (3.1)	223 (1.6)	7 (2.1)	227 (5.6)!	47 (4.0)	227 (2.2)	12 (2.5)	225 (3.7)!
New Hampshire	30 (3.8)	228 (1.9)	3 (1.0)	*** (***)	49 (4.1)	231 (1.8)	18 (3.4)	227 (2.6)
New Jersey	23 (3.8)	234 (2.4)	1 (0.7)	*** (***)	38 (4.1)	231 (2.2)	38 (4.1)	219 (3.0)
New Mexico	31 (3.8)	212 (2.1)	2 (1.3)	*** (***)	45 (4.7)	215 (1.8)	22 (3.3)	205 (3.2)
New York	21 (2.6)	221 (2.2)	3 (1.1)	*** (***)	35 (3.5)	221 (2.5)	42 (4.4)	211 (2.5)
North Carolina	36 (3.0)	213 (2.0)	6 (1.6)	219 (4.5)!	44 (3.0)	211 (1.7)	14 (2.4)	213 (3.6)
North Dakota	33 (4.0)	226 (1.3)	3 (1.2)	235 (4.1)!	49 (4.3)	227 (1.8)	15 (3.1)	231 (2.1)!
Ohio	29 (3.5)	216 (2.3)	2 (0.9)	*** (***)	46 (4.0)	220 (1.8)	23 (3.6)	216 (2.6)
Oklahoma	38 (4.3)	219 (1.1)	4 (1.4)	224 (3.8)!	31 (3.8)	221 (2.2)	27 (3.9)	219 (2.2)
Pennsylvania	39 (4.0)	224 (1.8)	7 (2.2)	231 (4.4)!	24 (3.0)	226 (2.4)	29 (4.0)	216 (3.1)
Rhode Island	31 (3.7)	215 (2.6)	2 (1.1)	*** (***)	35 (3.5)	218 (2.8)	32 (3.6)	210 (3.0)
South Carolina	42 (3.2)	208 (2.0)	1 (0.5)	*** (***)	34 (3.4)	217 (1.8)	23 (2.5)	209 (2.5)
Tennessee	34 (2.9)	204 (2.2)	3 (1.3)	204 (8.5)!	33 (3.5)	214 (1.8)	30 (3.9)	212 (2.4)
Texas	34 (3.8)	213 (2.5)	6 (1.7)	221 (5.3)!	32 (4.2)	222 (3.1)	28 (4.0)	216 (3.2)
Utah	38 (4.0)	222 (1.5)	4 (1.6)	227 (5.2)!	35 (3.3)	224 (1.6)	23 (3.0)	224 (2.5)
Virginia	34 (3.4)	218 (2.0)	3 (1.1)	*** (***)	43 (3.6)	222 (2.3)	20 (3.3)	218 (4.8)
West Virginia	32 (3.2)	215 (2.0)	5 (1.8)	222 (4.1)!	40 (3.2)	214 (1.9)	23 (4.0)	209 (2.3)
Wisconsin	43 (3.3)	226 (1.7)	4 (1.2)	229 (8.4)!	39 (3.2)	232 (1.8)	15 (2.4)	230 (2.0)
Wyoming	44 (3.8)	225 (1.3)	7 (1.7)	224 (3.2)!	38 (3.6)	225 (1.5)	11 (2.3)	223 (2.9)!
TERRITORY								
Guam	59 (1.0)	191 (1.1)	9 (0.8)	197 (3.7)	13 (0.8)	192 (2.5)	19 (0.7)	189 (2.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. When the proportion of students is either 0 percent or 100 percent, the standard error is inestimable. However, percentages 99.5 percent and greater were rounded to 100 percent and percentages 0.5 percent and less were rounded to 0 percent. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.88 | **Teachers' Reports on the Primary Use of Computers for Instruction (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Drill and Practice		Learning New Topics		Working With Data		Do Not Use Computers	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	22 (2.6)	262 (2.4)	8 (1.4)	269 (4.1)	9 (1.6)	278 (2.9)	61 (2.8)	268 (1.6)
Northeast	16 (5.7)	250 (5.9)!	7 (3.3)	272(10.1)!	5 (2.0)	275(14.0)!	71 (4.8)	272 (4.8)
Southeast	25 (5.1)	259 (3.1)	5 (2.3)	266(11.9)!	8 (3.8)	274 (3.6)!	62 (7.5)	260 (1.4)
Central	28 (5.9)	277 (3.6)!	6 (2.1)	280 (9.2)!	16 (2.9)	279 (4.7)	49 (4.6)	273 (3.1)
West	20 (4.4)	257 (5.4)!	11 (3.2)	263 (4.7)!	8 (3.0)	282 (5.6)!	61 (4.6)	270 (2.0)
STATES								
Alabama	38 (4.8)	246 (3.7)	6 (2.2)	271 (6.0)!	2 (0.9)	*** (***)	53 (4.6)	253 (2.2)
Arizona	21 (3.2)	260 (3.6)	8 (2.4)	268 (3.6)!	8 (2.5)	266 (3.3)!	63 (4.5)	265 (1.5)
Arkansas	31 (3.9)	252 (2.7)	2 (0.9)	*** (***)	3 (1.5)	258 (5.6)!	63 (4.2)	258 (1.8)
California	22 (3.1)	258 (2.9)	13 (2.2)	263 (5.3)	5 (1.4)	259 (4.0)!	61 (3.8)	261 (2.2)
Colorado	22 (3.0)	265 (3.0)	12 (2.0)	283 (3.0)	10 (1.7)	284 (3.9)	57 (3.7)	269 (1.4)
Connecticut	22 (2.5)	273 (3.0)	11 (2.0)	282 (4.0)	11 (2.6)	278 (5.7)!	57 (4.3)	272 (2.2)
Delaware	28 (0.8)	253 (2.1)	2 (0.2)	*** (***)	6 (0.3)	265 (3.7)	64 (0.7)	266 (1.1)
Dist. Columbia	40 (1.0)	232 (1.4)	19 (0.6)	237 (2.0)	6 (0.5)	224 (4.1)	35 (1.0)	240 (1.9)
Florida	28 (2.8)	251 (2.4)	4 (1.5)	282 (6.0)!	7 (1.8)	268 (4.1)!	60 (3.2)	262 (1.9)
Georgia	35 (3.4)	256 (2.1)	4 (1.1)	263 (7.8)!	2 (0.6)	*** (***)	59 (3.9)	259 (1.7)
Hawaii	19 (0.8)	252 (2.3)	7 (0.6)	262 (3.8)	7 (0.6)	258 (2.8)	67 (1.0)	260 (1.0)
Idaho	18 (2.1)	271 (2.3)	9 (2.6)	275 (2.7)!	5 (1.5)	284 (4.5)!	68 (3.2)	275 (1.1)
Indiana	32 (4.1)	263 (2.3)	9 (2.2)	271 (4.5)!	7 (2.1)	284 (6.5)!	52 (4.5)	272 (1.7)
Iowa	27 (4.1)	281 (1.8)	8 (2.5)	286 (3.1)!	8 (1.5)	295 (3.8)	57 (4.3)	282 (1.6)
Kentucky	29 (3.8)	257 (2.4)	6 (1.6)	270 (4.1)!	6 (1.5)	269 (4.8)!	59 (4.0)	263 (1.3)
Louisiana	19 (3.6)	245 (4.1)	2 (1.0)	*** (***)	4 (1.8)	249(16.0)!	75 (4.1)	251 (1.7)
Maine	26 (4.4)	276 (2.9)	8 (1.7)	283 (3.2)	16 (3.9)	284 (4.6)!	50 (5.3)	278 (1.6)
Maryland	35 (3.7)	258 (2.9)	20 (3.3)	267 (4.7)	13 (2.9)	277 (5.4)!	31 (4.0)	267 (3.2)
Massachusetts	23 (3.8)	266 (3.0)	9 (2.3)	278 (6.4)!	7 (2.0)	281 (5.0)!	61 (4.4)	274 (1.7)
Michigan	15 (3.1)	260 (4.8)!	7 (1.9)	267 (7.8)!	4 (1.1)	288 (7.4)!	73 (3.7)	268 (1.4)
Minnesota	22 (4.1)	272 (2.3)	14 (2.3)	290 (3.5)	13 (2.4)	284 (3.7)	51 (4.2)	284 (1.5)
Mississippi	26 (4.2)	240 (2.7)	1 (0.8)	*** (***)	3 (1.3)	*** (***)	70 (4.6)	247 (1.9)
Missouri	24 (3.0)	267 (2.2)	11 (2.7)	278 (4.3)!	9 (2.2)	274 (2.7)!	56 (3.7)	272 (1.6)
Nebraska	16 (3.1)	268 (4.1)	16 (3.6)	282 (2.7)!	6 (2.1)	289 (3.3)!	63 (3.9)	278 (1.4)
New Hampshire	20 (2.7)	275 (2.1)	7 (1.6)	281 (3.0)!	11 (2.7)	284 (4.3)!	61 (3.8)	276 (1.3)
New Jersey	27 (3.7)	263 (4.5)	8 (2.4)	285 (7.1)!	5 (1.8)	282 (5.3)!	60 (4.6)	274 (2.1)
New Mexico	29 (3.4)	256 (1.8)	8 (1.9)	262 (4.2)!	10 (1.2)	269 (2.8)	53 (4.1)	260 (1.2)
New York	25 (3.3)	264 (4.1)	9 (2.6)	262 (6.8)!	8 (2.6)	268(13.8)!	58 (4.5)	267 (3.0)
North Carolina	42 (3.9)	253 (1.7)	4 (1.3)	268 (5.0)!	3 (0.8)	261 (6.7)!	50 (4.2)	259 (1.7)
North Dakota	18 (3.1)	279 (2.4)	6 (1.3)	294 (4.3)!	9 (1.8)	291 (2.3)	67 (3.2)	281 (1.3)
Ohio	26 (3.5)	264 (3.1)	9 (2.3)	274 (4.9)!	6 (2.0)	271 (4.7)!	59 (4.6)	271 (1.9)
Oklahoma	30 (4.0)	264 (2.3)	4 (1.5)	266 (6.7)!	4 (1.7)	*** (***)	63 (4.5)	269 (1.5)
Pennsylvania	25 (3.5)	270 (3.2)	8 (2.2)	278 (4.6)!	5 (1.3)	275 (6.0)!	61 (4.3)	270 (2.1)
Rhode Island	17 (0.8)	253 (2.3)	11 (0.5)	276 (1.6)	6 (0.9)	270 (2.4)	66 (0.9)	264 (1.2)
South Carolina	36 (3.4)	250 (2.3)	5 (1.4)	268 (5.6)!	3 (0.6)	278 (5.3)!	55 (3.9)	266 (1.8)
Tennessee	25 (3.3)	251 (2.7)	6 (2.4)	261 (4.9)!	5 (1.8)	274 (4.6)!	64 (4.3)	259 (1.8)
Texas	21 (3.2)	258 (3.5)	7 (1.6)	283 (8.0)!	7 (1.8)	285 (6.0)!	66 (4.3)	263 (1.6)
Utah	18 (2.6)	266 (2.1)	6 (1.1)	269 (4.7)	10 (1.8)	284 (4.1)!	66 (3.2)	274 (1.2)
Virginia	41 (2.9)	263 (2.0)	7 (1.2)	282 (4.3)	6 (1.3)	286 (6.6)!	46 (3.4)	266 (1.9)
West Virginia	34 (3.6)	257 (2.1)	2 (0.9)	*** (***)	3 (1.5)	256 (3.8)!	61 (3.7)	259 (1.4)
Wisconsin	23 (3.8)	269 (3.1)	19 (5.2)	280 (4.1)!	17 (3.6)	288 (1.8)!	41 (4.7)	279 (2.9)
Wyoming	28 (2.7)	270 (1.9)	17 (2.1)	280 (2.1)	7 (1.1)	281 (2.8)	48 (3.3)	276 (1.5)
TERRITORIES								
Guam	35 (1.2)	226 (1.6)	6 (0.5)	259 (4.5)	2 (0.3)	*** (***)	57 (1.3)	235 (1.7)
Virgin Islands	11 (0.8)	211 (2.4)	0 (0.0)	*** (***)	0 (0.0)	*** (***)	89 (0.8)	223 (1.4)

Students' Perceptions of Mathematics

TABLE A.89 | **Students' Responses to the Statement "I Like Mathematics"**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Agree		Undecided or Disagree	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	72 (0.9)	219 (0.9)	28 (0.9)	214 (1.1)
Northeast	71 (1.8)	225 (2.4)	29 (1.8)	218 (2.5)
Southeast	74 (1.9)	210 (2.3)	26 (1.9)	204 (1.5)
Central	73 (2.0)	224 (2.2)	27 (2.0)	218 (2.7)
West	70 (1.6)	219 (1.7)	30 (1.6)	215 (2.0)
STATES				
Alabama	72 (1.2)	207 (1.6)	28 (1.2)	207 (2.0)
Arizona	73 (0.9)	217 (1.1)	27 (0.9)	208 (1.7)
Arkansas	74 (1.1)	210 (1.0)	26 (1.1)	206 (1.7)
California	71 (1.1)	210 (1.7)	29 (1.1)	203 (2.0)
Colorado	72 (1.1)	222 (1.1)	28 (1.1)	215 (1.4)
Connecticut	72 (1.1)	228 (1.2)	28 (1.1)	221 (1.6)
Delaware	74 (1.1)	219 (0.9)	26 (1.1)	211 (1.7)
Dist. Columbia	78 (0.9)	193 (0.6)	22 (0.9)	189 (1.6)
Florida	75 (1.2)	215 (1.5)	25 (1.2)	207 (2.4)
Georgia	76 (0.8)	216 (1.3)	24 (0.8)	211 (1.9)
Hawaii	75 (1.1)	216 (1.4)	25 (1.1)	207 (1.9)
Idaho	70 (1.1)	222 (1.0)	30 (1.1)	217 (1.5)
Indiana	76 (1.1)	221 (1.2)	24 (1.1)	216 (1.4)
Iowa	72 (1.0)	231 (1.2)	28 (1.0)	224 (1.3)
Kentucky	70 (1.1)	216 (1.1)	30 (1.1)	210 (1.5)
Louisiana	76 (1.3)	204 (1.4)	24 (1.3)	201 (2.1)
Maine	73 (0.9)	234 (1.1)	27 (0.9)	225 (1.5)
Maryland	71 (1.0)	218 (1.5)	29 (1.0)	213 (1.7)
Massachusetts	72 (1.3)	228 (1.3)	28 (1.3)	221 (1.9)
Michigan	72 (1.3)	221 (1.9)	28 (1.3)	214 (1.9)
Minnesota	74 (1.0)	230 (1.0)	26 (1.0)	222 (1.3)
Mississippi	76 (1.0)	201 (1.0)	24 (1.0)	198 (1.9)
Missouri	74 (1.0)	223 (1.2)	26 (1.0)	218 (1.8)
Nebraska	73 (1.2)	226 (1.4)	27 (1.2)	219 (1.9)
New Hampshire	70 (1.4)	232 (1.3)	30 (1.4)	223 (1.5)
New Jersey	76 (1.1)	228 (1.6)	24 (1.1)	221 (2.0)
New Mexico	74 (1.1)	213 (1.6)	26 (1.1)	210 (1.8)
New York	75 (1.3)	220 (1.3)	25 (1.3)	213 (1.8)
North Carolina	73 (0.9)	214 (1.2)	27 (0.9)	207 (1.5)
North Dakota	71 (1.4)	230 (0.9)	29 (1.4)	221 (1.3)
Ohio	74 (1.1)	220 (1.3)	26 (1.1)	212 (1.8)
Oklahoma	75 (1.1)	221 (1.1)	25 (1.1)	215 (1.4)
Pennsylvania	78 (1.0)	226 (1.4)	22 (1.0)	217 (2.3)
Rhode Island	72 (1.1)	217 (1.5)	28 (1.1)	209 (2.3)
South Carolina	76 (0.9)	212 (1.2)	24 (0.9)	209 (1.5)
Tennessee	72 (1.1)	212 (1.3)	28 (1.1)	204 (1.8)
Texas	76 (0.9)	219 (1.3)	24 (0.9)	212 (1.8)
Utah	69 (0.8)	226 (1.1)	31 (0.8)	217 (1.3)
Virginia	74 (0.9)	221 (1.3)	26 (0.9)	218 (2.0)
West Virginia	77 (1.0)	216 (1.1)	23 (1.0)	208 (1.6)
Wisconsin	75 (1.0)	230 (1.1)	25 (1.0)	223 (1.8)
Wyoming	74 (0.8)	226 (1.0)	26 (0.8)	220 (1.4)
TERRITORY				
Guam	66 (1.2)	194 (1.1)	34 (1.2)	187 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. At grade 4, students were not given the "strongly agree" and "strongly disagree" options.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.89 | **Students' Responses to the Statement "I Like Mathematics" (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Strongly Agree		Agree		Undecided, Disagree, or Strongly Disagree	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	18 (0.7)	274 (1.5)	39 (0.8)	269 (1.2)	43 (0.9)	262 (1.3)
Northeast	16 (1.1)	275 (4.4)	39 (2.3)	273 (3.0)	45 (2.6)	262 (4.1)
Southeast	20 (1.5)	264 (2.2)	40 (1.4)	259 (1.9)	41 (0.8)	254 (1.8)
Central	21 (1.2)	279 (2.3)	40 (1.6)	275 (2.7)	40 (2.0)	268 (2.3)
West	16 (1.4)	278 (3.3)	39 (1.5)	269 (2.3)	45 (1.8)	262 (2.3)
STATES						
Alabama	19 (1.3)	260 (2.8)	43 (1.3)	252 (2.1)	38 (1.5)	247 (1.8)
Arizona	15 (0.7)	273 (2.6)	40 (1.0)	267 (1.4)	46 (1.2)	260 (1.5) >
Arkansas	19 (1.0)	260 (2.2)	40 (1.1)	257 (1.5)	41 (1.1)	252 (1.5)
California	17 (0.9)	271 (2.9)	40 (1.2)	263 (2.0)	43 (1.5)	256 (1.7)
Colorado	19 (0.9) >	282 (1.8) >	41 (1.0)	275 (1.5)	40 (1.1) <	264 (1.4)
Connecticut	20 (0.8)	276 (2.0)	41 (0.9)	276 (1.4)	39 (1.2)	270 (1.5)
Delaware	20 (1.0)	267 (2.5)	39 (1.4)	265 (1.1)	41 (1.1)	258 (1.3)
Dist. Columbia	31 (1.0)	242 (1.6)	45 (1.4)	233 (1.3)	25 (1.1)	228 (1.9)
Florida	21 (0.8) »	266 (2.2)	41 (1.3)	260 (1.9)	39 (1.4)	255 (1.8)
Georgia	23 (0.9) >	263 (1.9)	43 (1.1)	258 (1.4)	35 (1.3)	257 (1.5)
Hawaii	18 (0.8)	263 (1.9)	40 (1.1) >	261 (1.6) »	42 (0.9) <	251 (1.4)
Idaho	16 (0.9)	285 (2.1)	39 (1.1)	278 (1.0)	45 (1.5)	268 (0.9) >
Indiana	22 (1.1)	278 (2.1)	44 (1.1)	272 (1.4)	34 (1.3)	261 (1.5)
Iowa	20 (1.0)	293 (1.5)	44 (0.9)	285 (1.2) >	36 (1.3)	274 (1.5)
Kentucky	19 (1.0)	270 (1.8)	41 (1.0)	263 (1.4) >	39 (1.1)	256 (1.6)
Louisiana	21 (0.9)	251 (2.2)	40 (1.3)	249 (1.9)	39 (1.4)	249 (2.0)
Maine[1]	18 (0.9)	286 (2.2)	41 (1.1)	282 (1.0)	41 (1.3)	271 (1.2)
Maryland	19 (1.1)	266 (2.4)	41 (1.1)	266 (1.7)	40 (1.3)	263 (1.3)
Massachusetts[1]	18 (1.0)	280 (2.1)	42 (1.2)	275 (1.3)	41 (1.5)	266 (1.5)
Michigan	21 (1.0)	272 (2.2)	39 (1.3) <	270 (2.0)	40 (1.6)	262 (1.8)
Minnesota	16 (1.0)	291 (1.5)	41 (1.4)	286 (1.3) »	43 (1.8)	275 (1.2) »
Mississippi[1]	23 (1.1)	253 (2.0)	46 (0.9)	246 (1.4)	32 (1.3)	241 (1.6)
Missouri[1]	20 (1.0)	279 (1.8)	42 (1.0)	274 (1.4)	38 (1.4)	263 (1.5)
Nebraska	19 (1.1)	286 (1.9)	43 (1.2)	280 (1.5)	38 (1.4)	269 (1.2)
New Hampshire	18 (0.9)	285 (1.4)	40 (1.3)	280 (1.3)	41 (1.5)	272 (1.3) >
New Jersey	20 (1.1)	274 (2.9)	43 (0.9)	274 (1.6)	37 (1.4)	267 (2.0)
New Mexico	16 (1.1)	270 (1.7)	39 (0.9)	261 (1.3)	45 (1.4)	253 (1.2)
New York	21 (1.2)	275 (2.8)	43 (1.2)	267 (2.1)	36 (1.3)	261 (2.5)
North Carolina	23 (1.0)	263 (1.5) >	41 (0.9)	257 (1.7) >	36 (1.2)	255 (1.6) »
North Dakota	16 (1.0)	294 (2.2)	42 (1.3)	286 (1.4)	42 (1.3)	275 (1.2)
Ohio	20 (0.9)	279 (2.7)	41 (1.0)	271 (2.0)	39 (1.4)	259 (1.9)
Oklahoma	19 (1.0)	275 (1.8)	43 (1.1)	271 (1.4) >	38 (1.2)	260 (1.6)
Pennsylvania	19 (0.8)	278 (2.4)	42 (1.0)	272 (1.6)	39 (1.2)	266 (1.8)
Rhode Island	18 (0.8)	270 (2.2)	42 (1.3)	266 (1.2)	40 (1.2)	263 (1.5) >
South Carolina[1]	24 (1.1)	261 (1.6)	43 (1.2)	260 (1.4)	33 (1.3)	259 (1.5)
Tennessee[1]	19 (0.9)	264 (2.0)	44 (1.0)	261 (1.9)	37 (1.2)	251 (1.6)
Texas	18 (1.1)	273 (2.0)	40 (1.2)	265 (1.6) >	42 (1.3)	259 (2.0)
Utah[1]	15 (0.8)	286 (1.7)	39 (1.1)	277 (1.2)	46 (1.1)	268 (0.9)
Virginia	19 (0.8)	270 (1.8)	41 (1.1)	270 (1.4)	39 (1.4)	263 (1.5)
West Virginia	21 (0.9)	266 (1.4)	43 (1.0)	260 (1.2)	37 (1.3)	253 (1.5)
Wisconsin	19 (1.3)	286 (2.2)	40 (1.3)	281 (1.7)	40 (1.7)	269 (1.7)
Wyoming	18 (0.9) >	284 (1.6)	40 (1.1)	278 (1.2)	42 (1.5)	266 (1.0)
TERRITORIES						
Guam	21 (1.0)	246 (1.6)	40 (1.3)	236 (1.9)	39 (1.1)	231 (1.7)
Virgin Islands	29 (1.2)	227 (1.7)	40 (1.3)	222 (1.4)	31 (1.4) <	218 (1.7)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.90 | **Students' Responses to the Statement "Mathematics Is Useful for Solving Everyday Problems"**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Agree		Undecided or Disagree	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	66 (1.1)	222 (0.9)	34 (1.1)	212 (1.2)
Northeast	67 (2.0)	229 (2.4)	33 (2.0)	215 (2.3)
Southeast	65 (1.6)	214 (2.1)	35 (1.6)	203 (1.7)
Central	61 (3.0)	225 (1.7)	39 (3.0)	220 (3.3)
West	69 (1.9)	222 (1.9)	31 (1.9)	210 (2.0)
STATES				
Alabama	63 (1.3)	210 (1.8)	37 (1.3)	205 (1.6)
Arizona	62 (1.1)	219 (1.0)	38 (1.1)	209 (1.4)
Arkansas	61 (1.1)	212 (0.9)	39 (1.1)	205 (1.5)
California	64 (1.2)	214 (1.8)	36 (1.2)	204 (1.9)
Colorado	65 (1.0)	225 (1.0)	35 (1.0)	214 (1.3)
Connecticut	66 (1.1)	230 (1.0)	34 (1.1)	221 (1.9)
Delaware	61 (1.2)	221 (1.2)	39 (1.2)	212 (1.6)
Dist. Columbia	63 (1.1)	198 (0.9)	37 (1.1)	186 (1.2)
Florida	63 (1.1)	217 (1.3)	37 (1.1)	208 (1.9)
Georgia	63 (1.3)	219 (1.4)	37 (1.3)	209 (1.5)
Hawaii	60 (1.1)	219 (1.5)	40 (1.1)	208 (1.7)
Idaho	66 (1.1)	224 (1.0)	34 (1.1)	215 (1.3)
Indiana	63 (1.0)	223 (1.2)	37 (1.0)	215 (1.3)
Iowa	64 (1.1)	232 (1.2)	36 (1.1)	226 (1.3)
Kentucky	66 (1.1)	218 (1.2)	34 (1.1)	208 (1.2)
Louisiana	65 (1.2)	207 (1.5)	35 (1.2)	201 (1.6)
Maine	68 (1.5)	234 (1.2)	32 (1.5)	227 (1.4)
Maryland	68 (1.0)	222 (1.2)	32 (1.0)	209 (2.0)
Massachusetts	65 (1.2)	230 (1.2)	35 (1.2)	221 (1.7)
Michigan	65 (1.3)	223 (1.9)	35 (1.3)	214 (1.8)
Minnesota	69 (1.1)	232 (1.0)	31 (1.1)	220 (1.4)
Mississippi	64 (1.1)	204 (1.1)	36 (1.1)	196 (1.6)
Missouri	65 (1.4)	224 (1.3)	35 (1.4)	219 (1.5)
Nebraska	67 (1.1)	228 (1.3)	33 (1.1)	219 (1.7)
New Hampshire	68 (1.3)	232 (1.3)	32 (1.3)	225 (1.4)
New Jersey	65 (1.3)	230 (1.6)	35 (1.3)	222 (1.9)
New Mexico	62 (1.3)	216 (1.8)	38 (1.3)	208 (1.5)
New York	65 (1.2)	222 (1.5)	35 (1.2)	215 (1.4)
North Carolina	66 (1.1)	216 (1.3)	34 (1.1)	206 (1.4)
North Dakota	65 (1.1)	230 (0.9)	35 (1.1)	225 (1.2)
Ohio	64 (1.2)	222 (1.3)	36 (1.2)	212 (1.6)
Oklahoma	62 (1.5)	222 (1.2)	38 (1.5)	217 (1.1)
Pennsylvania	67 (1.3)	227 (1.6)	34 (1.3)	218 (1.5)
Rhode Island	61 (1.4)	218 (1.6)	39 (1.4)	212 (1.9)
South Carolina	66 (1.0)	216 (1.2)	34 (1.0)	205 (1.2)
Tennessee	59 (1.4)	214 (1.5)	41 (1.4)	206 (1.6)
Texas	68 (1.1)	222 (1.4)	32 (1.1)	212 (1.6)
Utah	67 (1.1)	227 (1.0)	33 (1.1)	218 (1.4)
Virginia	65 (1.1)	223 (1.5)	35 (1.1)	216 (1.6)
West Virginia	60 (1.2)	218 (1.2)	40 (1.2)	210 (1.4)
Wisconsin	66 (1.1)	231 (1.2)	34 (1.1)	223 (1.6)
Wyoming	66 (0.9)	227 (0.9)	34 (0.9)	221 (1.5)
TERRITORY				
Guam	56 (1.3)	197 (1.2)	44 (1.3)	188 (1.3)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. At grade 4, students were not given the "strongly agree" and "strongly disagree" options.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.90 **Students' Responses to the Statement "Mathematics Is Useful for Solving Everyday Problems" (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Strongly Agree		Agree		Undecided, Disagree, or Strongly Disagree	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	38 (0.7)	268 (1.3)	43 (0.7)	269 (1.1)	19 (0.6)	263 (1.5)
Northeast	37 (2.2)	269 (3.8)	42 (2.0)	273 (3.6)	21 (1.5)	267 (4.1)
Southeast	37 (1.0)	260 (1.4)	42 (1.2)	261 (2.0)	21 (0.9)	253 (2.2)
Central	38 (1.4)	274 (2.4)	44 (1.8)	275 (2.1)	18 (1.4)	271 (3.3)
West	39 (1.2)	269 (2.6)	44 (1.3)	269 (2.3)	17 (1.1)	262 (3.2)
STATES						
Alabama	40 (1.3) >	253 (2.1)	40 (1.0)	253 (1.9)	19 (1.0)	249 (2.2)
Arizona	34 (1.3) »	266 (1.6)	43 (1.4)	268 (1.3) >	23 (1.1) <	261 (2.1)
Arkansas	38 (1.3) »	257 (1.5)	43 (1.2)	259 (1.4)	18 (0.9) «	250 (1.9)
California	39 (1.4) »	264 (2.1)	40 (1.3) «	264 (1.9)	22 (1.1)	259 (2.2)
Colorado	36 (1.1) »	274 (1.4)	45 (1.0)	275 (1.3) >	19 (0.9) «	264 (1.6)
Connecticut	35 (1.1) »	275 (1.5)	45 (0.9) <	277 (1.3)	20 (0.9)	268 (1.9)
Delaware	40 (1.5) »	261 (1.7)	41 (1.1)	266 (1.2)	19 (1.1) <	261 (2.2)
Dist. Columbia	42 (1.1) >	236 (1.6)	40 (1.2)	238 (1.3)	17 (0.9) «	232 (2.6)
Florida	36 (1.3) »	259 (1.8)	42 (1.0) <	264 (1.9)	22 (1.1)	255 (1.8)
Georgia	42 (1.2) »	258 (1.4)	41 (1.1)	263 (1.5)	17 (0.9) «	258 (2.1)
Hawaii	39 (1.2) »	260 (1.3)	38 (1.1)	260 (1.5) >	23 (0.8)	253 (2.0) >
Idaho	39 (1.2) »	277 (1.1) >	43 (1.2)	277 (0.9)	18 (0.9)	267 (1.9)
Indiana	37 (1.2) >	272 (1.6)	43 (1.2)	272 (1.4)	19 (1.0)	262 (2.0)
Iowa	39 (1.1)	285 (1.3) >	46 (1.1)	284 (1.3)	15 (1.0)	277 (1.7)
Kentucky	38 (0.9) >	264 (1.4) >	45 (1.0)	265 (1.4) >	18 (0.7) «	253 (1.8)
Louisiana	41 (1.3) >	248 (1.9)	40 (1.1)	253 (2.1)	19 (0.9)	250 (2.0) >
Maine[1]	39 (0.9)	279 (1.3)	44 (1.2)	281 (1.3)	16 (1.0)	271 (2.3)
Maryland	37 (1.2) >	266 (1.8)	43 (1.1)	268 (1.5)	20 (1.0)	260 (2.1)
Massachusetts[1]	34 (1.1)	275 (1.7)	45 (1.2)	275 (1.4)	21 (1.2)	265 (2.3)
Michigan	39 (1.1) »	268 (1.8)	43 (1.1)	271 (1.6)	18 (0.8) «	260 (2.2)
Minnesota	34 (1.0) >	283 (1.2)	48 (1.0)	284 (1.5) >	18 (0.9)	276 (1.9) >
Mississippi[1]	42 (1.2)	246 (1.5)	40 (0.9)	249 (1.5)	17 (0.9)	243 (2.0)
Missouri[1]	38 (1.3)	271 (1.7)	44 (1.0)	274 (1.3)	18 (0.9)	263 (1.9)
Nebraska	39 (1.4)	279 (1.6)	46 (1.2)	279 (1.3)	15 (0.8) <	270 (2.2)
New Hampshire	37 (1.0) >	280 (1.2) >	45 (1.0) <	279 (1.3)	19 (1.0)	273 (1.7)
New Jersey	37 (1.2) »	272 (1.7)	45 (1.3)	276 (1.6)	18 (1.0) «	265 (2.7)
New Mexico	35 (1.1) »	261 (1.4)	44 (1.1)	260 (1.1)	21 (0.8)	256 (1.8)
New York	34 (1.3) »	266 (2.4)	45 (1.3)	272 (2.1) >	21 (1.0) «	261 (2.9)
North Carolina	39 (1.2)	257 (1.3) >	44 (1.2)	262 (1.5) »	17 (0.7) <	252 (2.0) >
North Dakota	38 (1.2)	285 (1.5)	48 (0.8)	284 (1.3)	15 (0.9)	273 (1.9)
Ohio	41 (1.3) »	272 (1.9)	41 (1.0) «	270 (1.6)	19 (1.0)	258 (1.9)
Oklahoma	36 (1.0)	269 (1.6)	45 (1.2)	270 (1.2)	19 (1.1)	262 (2.1)
Pennsylvania	35 (1.1) »	271 (2.1)	44 (1.0) <	273 (1.6)	20 (0.9) <	267 (2.0) >
Rhode Island	34 (1.0) »	266 (1.4)	45 (1.3)	268 (1.0)	21 (1.0) «	264 (2.0) »
South Carolina[1]	43 (1.0)	259 (1.3)	42 (1.1)	264 (1.2)	15 (0.7)	257 (1.9)
Tennessee[1]	35 (1.1)	257 (1.8)	44 (1.0)	261 (1.5)	20 (1.0)	258 (2.5)
Texas	42 (1.3) »	266 (1.6)	42 (1.0)	267 (1.7) >	16 (0.9) «	260 (2.2) >
Utah[1]	35 (0.9)	275 (1.3)	45 (0.9)	276 (1.0)	19 (0.8)	271 (1.5)
Virginia	38 (1.0) »	267 (1.6)	45 (0.9)	270 (1.4)	18 (1.0)	267 (1.7) >
West Virginia	34 (1.0)	260 (1.4)	43 (0.9)	262 (1.3)	23 (1.0)	253 (1.6)
Wisconsin	38 (1.3) »	280 (1.9)	46 (1.2)	279 (1.3)	16 (1.0) <	271 (2.4)
Wyoming	37 (1.1) »	277 (1.3)	44 (1.0)	277 (1.1)	18 (1.0)	265 (1.7)
TERRITORIES						
Guam	41 (1.3) »	244 (1.8)	38 (1.5)	240 (2.1)	22 (1.2) <	231 (2.6)
Virgin Islands	55 (1.3) »	223 (1.4)	31 (1.2)	225 (1.7)	14 (0.9) <	217 (2.6)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.91 | **Students' Responses to the Statement "Almost All People Use Mathematics in Their Jobs"**

PUBLIC SCHOOLS	Grade 4 - 1992			
	Agree		Undecided or Disagree	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	73 (1.0)	222 (0.8)	27 (1.0)	210 (1.4)
Northeast	76 (1.8)	227 (2.2)	24 (1.8)	215 (3.8)
Southeast	74 (1.7)	214 (1.8)	26 (1.7)	199 (2.5)
Central	72 (1.7)	225 (1.8)	28 (1.7)	218 (3.6)
West	73 (2.1)	222 (1.8)	27 (2.1)	210 (1.5)
STATES				
Alabama	69 (1.3)	211 (1.6)	31 (1.3)	201 (2.1)
Arizona	73 (1.1)	218 (1.0)	27 (1.1)	206 (1.5)
Arkansas	69 (1.2)	213 (1.0)	31 (1.2)	202 (1.6)
California	68 (1.5)	215 (1.8)	32 (1.5)	201 (2.0)
Colorado	76 (1.0)	223 (1.0)	24 (1.0)	213 (1.4)
Connecticut	68 (1.4)	230 (1.0)	32 (1.4)	220 (1.9)
Delaware	70 (1.4)	222 (1.2)	30 (1.4)	208 (1.4)
Dist. Columbia	63 (1.0)	199 (0.9)	37 (1.0)	184 (1.2)
Florida	71 (0.9)	217 (1.4)	29 (0.9)	205 (2.1)
Georgia	71 (1.1)	218 (1.2)	29 (1.1)	208 (1.8)
Hawaii	72 (1.1)	218 (1.3)	28 (1.1)	205 (1.9)
Idaho	77 (1.0)	223 (1.0)	23 (1.0)	215 (1.5)
Indiana	71 (1.1)	221 (1.1)	29 (1.1)	217 (1.5)
Iowa	73 (1.1)	232 (1.0)	27 (1.1)	224 (1.7)
Kentucky	73 (1.3)	217 (1.0)	27 (1.3)	207 (1.8)
Louisiana	66 (1.5)	209 (1.5)	34 (1.5)	196 (2.0)
Maine	74 (1.2)	235 (1.1)	26 (1.2)	224 (1.6)
Maryland	71 (1.3)	222 (1.2)	29 (1.3)	206 (2.2)
Massachusetts	71 (1.0)	229 (1.2)	29 (1.0)	220 (1.7)
Michigan	71 (1.3)	223 (1.7)	29 (1.3)	212 (2.3)
Minnesota	72 (1.2)	231 (0.8)	28 (1.2)	221 (1.7)
Mississippi	66 (1.3)	206 (1.2)	34 (1.3)	191 (1.4)
Missouri	74 (0.9)	224 (1.2)	26 (0.9)	216 (1.8)
Nebraska	73 (1.2)	227 (1.3)	27 (1.2)	219 (1.7)
New Hampshire	75 (1.3)	231 (1.3)	25 (1.3)	223 (1.5)
New Jersey	71 (1.3)	229 (1.5)	29 (1.3)	222 (1.9)
New Mexico	73 (1.2)	216 (1.5)	27 (1.2)	204 (2.2)
New York	67 (1.4)	222 (1.2)	33 (1.4)	213 (1.8)
North Carolina	71 (1.0)	216 (1.1)	29 (1.0)	205 (2.0)
North Dakota	75 (1.1)	229 (0.9)	25 (1.1)	224 (1.3)
Ohio	72 (1.0)	220 (1.1)	28 (1.0)	212 (1.9)
Oklahoma	74 (1.2)	221 (1.0)	26 (1.2)	215 (1.7)
Pennsylvania	70 (1.1)	227 (1.5)	30 (1.1)	218 (1.8)
Rhode Island	64 (1.3)	219 (1.4)	36 (1.3)	209 (2.1)
South Carolina	73 (1.2)	216 (1.1)	27 (1.2)	202 (1.6)
Tennessee	68 (1.1)	214 (1.3)	32 (1.1)	203 (1.8)
Texas	72 (1.2)	222 (1.3)	28 (1.2)	209 (1.8)
Utah	76 (1.1)	225 (1.0)	24 (1.1)	220 (1.7)
Virginia	74 (1.1)	224 (1.4)	26 (1.1)	212 (1.6)
West Virginia	72 (1.2)	218 (1.2)	28 (1.2)	207 (1.6)
Wisconsin	72 (1.2)	230 (1.2)	28 (1.2)	223 (1.7)
Wyoming	76 (1.1)	227 (1.0)	24 (1.1)	219 (1.4)
TERRITORY				
Guam	58 (1.3)	199 (1.2)	42 (1.3)	185 (1.5)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. At grade 4, students were not given the "strongly agree" and "strongly disagree" options.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.91 | **Students' Responses to the Statement "Almost All People Use Mathematics in Their Jobs" (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992					
	Strongly Agree		Agree		Undecided, Disagree, or Strongly Disagree	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	45 (1.0)	268 (1.2)	42 (0.8)	269 (1.2)	12 (0.6)	264 (1.7)
Northeast	43 (2.1)	270 (3.4)	44 (1.3)	271 (3.3)	14 (1.8)	266 (5.1)
Southeast	45 (1.4)	259 (1.4)	41 (1.4)	260 (2.5)	14 (0.8)	255 (2.1)
Central	45 (2.5)	273 (2.3)	43 (2.0)	276 (2.1)	11 (1.0)	272 (3.9)
West	48 (2.0)	269 (2.6)	41 (1.5)	268 (2.4)	11 (1.2)	264 (3.1)
STATES						
Alabama	49 (1.3)»	251 (1.9)	41 (0.9)«	254 (2.0)	11 (0.7)«	251 (3.0)
Arizona	45 (1.0)»	265 (1.5)	43 (0.9)«	267 (1.5)>	12 (0.8)<	262 (2.1)
Arkansas	44 (1.1)»	256 (1.4)	43 (1.1)«	258 (1.6)	13 (0.7)<	254 (2.6)
California	44 (1.2)»	265 (1.8)>	42 (1.1)«	263 (2.1)	14 (0.7)	257 (2.7)
Colorado	46 (1.3)»	274 (1.5)>	43 (1.2)«	272 (1.0)>	11 (0.7)«	268 (2.5)
Connecticut	40 (1.1)»	275 (1.4)>	47 (1.1)«	274 (1.6)	13 (0.8)«	275 (2.2)
Delaware	46 (1.3)»	261 (1.7)	44 (1.0)«	265 (1.1)	10 (0.7)«	265 (2.7)>
Dist. Columbia	44 (1.5)>	235 (1.8)	44 (1.4)	236 (1.2)	12 (0.7)<	238 (3.2)>
Florida	46 (0.9)»	259 (1.7)>	42 (0.9)«	261 (1.7)	12 (0.7)«	258 (2.8)
Georgia	47 (1.3)»	259 (1.2)	41 (1.0)«	261 (1.5)	12 (0.8)<	259 (2.7)
Hawaii	49 (1.2)»	259 (1.3)>	41 (1.1)«	259 (1.3)»	10 (0.7)<	251 (3.5)
Idaho	48 (1.3)»	276 (1.1)>	42 (1.3)«	275 (0.8)	9 (0.7)<	267 (2.0)
Indiana	45 (1.3)»	270 (1.4)	44 (1.4)<	270 (1.4)	10 (0.8)«	268 (2.5)
Iowa	48 (1.3)»	283 (1.3)>	42 (1.0)«	284 (1.3)>	9 (0.7)<	279 (2.5)
Kentucky	42 (1.1)»	263 (1.5)>	46 (1.0)<	263 (1.5)	12 (0.6)<	258 (2.1)
Louisiana	45 (1.3)»	249 (1.9)	42 (1.2)«	252 (1.9)	13 (0.8)	248 (2.6)
Maine[1]	45 (1.2)	279 (1.2)	44 (1.2)	280 (1.3)	11 (0.8)	272 (2.2)
Maryland	43 (1.3)»	263 (1.6)	44 (1.3)«	269 (1.6)	13 (0.8)<	262 (2.4)
Massachusetts[1]	40 (1.1)	273 (1.3)	45 (1.0)	273 (1.4)	15 (0.9)	270 (2.4)
Michigan	45 (1.0)»	268 (1.8)	43 (1.0)«	269 (1.6)	12 (0.7)«	264 (2.4)
Minnesota	45 (1.3)»	283 (1.2)>	45 (1.3)«	282 (1.3)>	10 (0.7)«	275 (2.6)
Mississippi[1]	48 (1.3)	247 (1.2)	42 (1.2)	246 (1.6)	10 (0.7)	248 (3.1)
Missouri[1]	45 (1.6)	271 (1.7)	43 (1.3)	273 (1.2)	12 (0.8)	268 (2.3)
Nebraska	46 (1.3)»	278 (1.4)	44 (1.0)«	278 (1.3)	10 (0.8)<	271 (2.9)
New Hampshire	44 (1.3)»	280 (1.0)	44 (1.2)«	277 (1.4)	12 (0.7)«	275 (2.5)>
New Jersey	42 (1.1)»	272 (1.8)	44 (1.1)«	273 (1.7)	14 (1.0)<	275 (2.4)
New Mexico	47 (1.2)»	260 (1.3)	44 (1.0)«	260 (1.1)	9 (0.7)«	256 (2.4)>
New York	42 (1.2)»	266 (2.3)>	45 (1.2)«	268 (2.2)	13 (0.8)«	269 (2.7)
North Carolina	44 (1.0)»	258 (1.4)>	45 (1.0)<	260 (1.6)»	11 (0.6)«	257 (2.4)>
North Dakota	44 (1.5)»	284 (1.5)	47 (1.4)<	283 (1.3)	9 (0.7)	275 (2.4)
Ohio	48 (2.0)»	269 (1.8)	41 (1.5)«	269 (1.7)	11 (0.8)<	261 (2.4)
Oklahoma	44 (1.2)»	268 (1.7)	44 (1.1)<	270 (1.4)	12 (0.9)	264 (2.4)
Pennsylvania	43 (1.1)»	271 (1.9)	44 (1.1)«	271 (1.4)	13 (0.8)<	272 (2.8)>
Rhode Island	40 (1.0)»	265 (1.3)>	46 (1.0)«	266 (1.1)	15 (0.8)«	270 (1.7)»
South Carolina[1]	50 (1.3)	260 (1.2)	41 (1.4)	262 (1.4)	10 (0.8)	262 (3.2)
Tennessee[1]	41 (1.3)	259 (1.7)	46 (1.0)	260 (1.7)	12 (0.9)	256 (2.2)
Texas	51 (1.2)»	265 (1.5)	42 (1.0)«	266 (1.7)>	7 (0.6)«	263 (3.2)
Utah[1]	46 (1.1)	275 (1.0)	42 (1.1)	276 (1.1)	12 (0.6)	269 (2.0)
Virginia	45 (0.9)»	267 (1.7)	43 (0.8)«	269 (1.2)	12 (0.6)<	271 (2.2)
West Virginia	43 (1.0)»	259 (1.2)	43 (1.0)«	260 (1.3)	14 (0.8)	258 (1.9)
Wisconsin	46 (1.1)»	280 (1.9)	44 (0.9)«	278 (1.4)	10 (0.8)<	268 (3.0)
Wyoming	48 (1.1)»	275 (1.0)>	42 (1.1)«	276 (1.3)	10 (0.8)	267 (1.8)
TERRITORIES						
Guam	49 (1.4)»	241 (1.6)»	39 (1.2)«	238 (2.0)	12 (1.0)	237 (4.4)
Virgin Islands	60 (1.3)»	223 (1.4)	33 (1.2)«	224 (1.6)>	7 (0.8)	215 (4.7)

[1]Did not participate in the 1990 Trial State Assessment Program, so comparisons with 1990 values are not possible.
»The value for 1992 was significantly higher than the value for 1990 at about the 95 percent certainty level. «The value for 1992 was significantly lower than the value for 1990 at about the 95 percent certainty level. These notations indicate statistical significance from a multiple comparison procedure based on the 37 jurisdictions participating in both 1992 and 1990. If looking at only one state, then > and < also indicate differences that are significant. Statistically significant differences between 1990 and 1992 for the state comparison samples for the nation and regions are not indicated.

TABLE A.92 | **Students' Reports on How Important It Was for Them to Perform Well on the NAEP Mathematics Test**

PUBLIC SCHOOLS	Grade 4 - 1992							
	Very Important		Important		Somewhat Important		Not Important	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	67 (1.0)	216 (0.9)	22 (0.7)	224 (1.2)	7 (0.4)	221 (2.2)	4 (0.4)	212 (3.4)
Northeast	61 (2.1)	221 (2.8)	25 (1.3)	228 (3.2)	7 (1.6)	230 (4.3)!	6 (1.2)	*** (***)
Southeast	70 (2.0)	207 (2.1)	19 (1.4)	217 (3.2)	6 (0.5)	209 (4.1)	5 (0.7)	201 (5.5)
Central	68 (1.3)	220 (2.5)	24 (1.7)	228 (1.9)	6 (0.7)	227 (4.1)	2 (0.5)	*** (***)
West	67 (2.5)	216 (1.5)	22 (1.5)	223 (2.0)	8 (0.7)	217 (4.0)	4 (0.8)	*** (***)
STATES								
Alabama	77 (1.0)	206 (1.6)	16 (0.7)	212 (2.4)	4 (0.4)	210 (4.9)	3 (0.4)	196 (5.0)
Arizona	63 (1.2)	214 (1.1)	25 (1.0)	215 (2.2)	8 (0.5)	212 (2.5)	4 (0.4)	208 (3.3)
Arkansas	76 (1.1)	209 (0.9)	16 (0.9)	213 (2.3)	5 (0.4)	207 (3.7)	3 (0.3)	198 (3.8)
California	64 (1.3)	207 (1.6)	23 (0.8)	212 (2.4)	8 (0.6)	206 (3.3)	5 (0.5)	198 (4.0)
Colorado	64 (1.1)	219 (1.1)	24 (0.8)	222 (1.4)	8 (0.6)	224 (2.4)	4 (0.4)	214 (3.4)
Connecticut	60 (1.5)	223 (1.4)	26 (1.0)	232 (1.4)	9 (0.7)	236 (2.4)	5 (0.5)	221 (3.6)
Delaware	66 (1.0)	215 (1.1)	22 (1.0)	222 (1.8)	7 (0.7)	224 (3.3)	5 (0.6)	207 (6.0)
Dist. Columbia	80 (0.9)	191 (0.7)	13 (0.8)	198 (2.3)	4 (0.4)	185 (3.7)	3 (0.3)	191 (4.4)
Florida	70 (1.1)	212 (1.7)	20 (0.9)	215 (2.0)	6 (0.5)	219 (3.7)	4 (0.5)	203 (4.4)
Georgia	71 (1.3)	213 (1.3)	20 (0.9)	222 (1.7)	6 (0.5)	217 (3.5)	4 (0.5)	216 (5.0)
Hawaii	72 (1.2)	214 (1.4)	21 (1.0)	214 (2.1)	5 (0.4)	203 (4.0)	3 (0.3)	196 (4.6)
Idaho	66 (0.9)	220 (1.0)	23 (0.8)	223 (1.8)	8 (0.6)	219 (2.9)	3 (0.4)	215 (4.5)
Indiana	69 (1.1)	218 (1.2)	22 (0.8)	225 (1.5)	7 (0.5)	223 (2.8)	3 (0.3)	211 (3.8)
Iowa	68 (1.3)	228 (1.0)	23 (1.0)	233 (1.5)	6 (0.5)	228 (2.9)	3 (0.4)	220 (5.1)
Kentucky	74 (1.1)	213 (1.0)	18 (0.8)	217 (2.2)	5 (0.5)	215 (2.9)	3 (0.4)	207 (4.5)
Louisiana	78 (1.1)	204 (1.3)	15 (0.8)	207 (2.0)	5 (0.5)	197 (4.5)	3 (0.3)	191 (5.1)
Maine	62 (1.3)	230 (1.2)	26 (1.1)	235 (1.5)	8 (0.8)	229 (2.4)	4 (0.4)	222 (5.0)
Maryland	65 (1.3)	213 (1.3)	24 (0.9)	225 (1.7)	8 (0.6)	221 (3.3)	3 (0.4)	213 (5.5)
Massachusetts	63 (1.5)	224 (1.3)	25 (1.0)	231 (1.7)	8 (0.6)	230 (2.7)	4 (0.4)	216 (4.7)
Michigan	68 (1.4)	218 (1.5)	22 (1.0)	224 (2.3)	7 (0.7)	217 (3.9)	3 (0.4)	214 (4.2)
Minnesota	62 (1.3)	228 (1.1)	26 (0.9)	231 (1.3)	8 (0.5)	221 (2.5)	4 (0.5)	218 (4.7)
Mississippi	82 (0.9)	201 (1.1)	13 (0.7)	201 (2.6)	3 (0.3)	200 (5.1)	2 (0.3)	*** (***)
Missouri	71 (1.2)	221 (1.3)	20 (0.9)	225 (2.0)	7 (0.6)	222 (3.3)	3 (0.4)	211 (3.6)
Nebraska	65 (1.2)	224 (1.4)	27 (1.0)	226 (1.7)	6 (0.6)	224 (2.8)	2 (0.3)	*** (***)
New Hampshire	57 (1.2)	228 (1.2)	28 (1.1)	232 (1.5)	11 (0.8)	228 (2.6)	5 (0.6)	219 (3.9)
New Jersey	61 (1.5)	223 (1.8)	24 (1.0)	233 (1.5)	8 (0.7)	232 (3.0)	6 (0.6)	225 (3.3)
New Mexico	70 (1.5)	212 (1.3)	20 (1.3)	214 (2.6)	6 (0.6)	216 (4.1)	4 (0.5)	203 (4.1)
New York	62 (1.5)	216 (1.4)	23 (1.1)	223 (1.5)	8 (0.7)	222 (2.3)	6 (0.6)	215 (3.1)
North Carolina	71 (1.3)	211 (1.2)	19 (0.9)	216 (1.9)	6 (0.5)	219 (3.1)	4 (0.5)	201 (3.7)
North Dakota	63 (1.3)	227 (0.9)	27 (1.0)	229 (1.6)	7 (0.6)	228 (2.6)	3 (0.6)	*** (***)
Ohio	68 (1.2)	216 (1.3)	21 (1.0)	223 (1.9)	6 (0.5)	220 (2.8)	4 (0.5)	212 (3.3)
Oklahoma	73 (1.1)	218 (1.0)	18 (0.8)	222 (1.9)	5 (0.5)	224 (2.8)	3 (0.5)	213 (5.1)
Pennsylvania	63 (1.4)	222 (1.5)	27 (1.1)	227 (1.5)	6 (0.7)	225 (3.7)	3 (0.4)	215 (3.9)
Rhode Island	62 (1.1)	212 (1.7)	24 (0.9)	219 (1.8)	10 (0.7)	222 (2.5)	4 (0.5)	211 (4.7)
South Carolina	76 (1.2)	210 (1.1)	16 (0.8)	218 (2.0)	4 (0.5)	210 (3.4)	3 (0.4)	206 (4.3)
Tennessee	75 (1.1)	209 (1.4)	18 (0.8)	212 (2.1)	5 (0.5)	213 (3.7)	2 (0.3)	205 (4.8)
Texas	76 (1.2)	217 (1.3)	17 (0.9)	222 (2.5)	4 (0.4)	211 (4.0)	3 (0.4)	206 (4.4)
Utah	66 (1.4)	223 (1.0)	24 (1.0)	226 (1.5)	7 (0.6)	218 (2.5)	3 (0.4)	218 (3.7)
Virginia	69 (1.1)	218 (1.3)	20 (0.9)	226 (1.9)	7 (0.6)	223 (3.9)	4 (0.4)	216 (4.2)
West Virginia	71 (1.1)	214 (1.1)	21 (0.9)	216 (1.5)	6 (0.4)	216 (2.8)	3 (0.4)	203 (4.3)
Wisconsin	63 (1.3)	227 (1.1)	26 (0.9)	230 (1.7)	9 (0.7)	230 (2.8)	3 (0.4)	219 (4.2)
Wyoming	69 (1.1)	225 (1.0)	22 (1.0)	225 (1.5)	6 (0.4)	225 (3.2)	3 (0.4)	214 (3.5)
TERRITORY								
Guam	69 (0.9)	194 (0.9)	20 (0.8)	192 (2.2)	6 (0.5)	169 (3.9)	5 (0.6)	175 (3.4)

The standard errors of the estimated percentages and proficiencies appear in parentheses. It can be said with 95 percent certainty that for each population of interest, the value for the whole population is within plus or minus two standard errors of the estimate for the sample. ***Sample size insufficient to permit reliable estimate. There were fewer than 62 students. ! Interpret with caution - the nature of the sample does not allow accurate determination of the variability of this estimated statistic.

SOURCE: National Assessment of Educational Progress (NAEP), 1992 Trial State Mathematics Assessment.

TABLE A.92 | **Students' Reports on How Important It Was For Them to Perform Well on the NAEP Mathematics Test (continued)**

PUBLIC SCHOOLS	Grade 8 - 1992							
	Very Important		Important		Somewhat Important		Not Important	
	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency	Percentage of Students	Average Proficiency
NATION	26 (0.8)	259 (1.3)	34 (1.0)	269 (1.3)	27 (0.7)	269 (1.5)	13 (0.6)	269 (1.8)
Northeast	25 (1.3)	262 (3.9)	34 (2.0)	269 (4.0)	28 (1.6)	270 (5.0)	13 (1.4)	264 (4.5)
Southeast	30 (2.0)	251 (1.8)	32 (1.8)	261 (2.0)	25 (1.5)	263 (1.9)	13 (1.0)	259 (2.7)
Central	24 (1.6)	267 (3.0)	34 (2.1)	275 (2.2)	28 (1.2)	275 (2.5)	14 (1.6)	277 (5.0)
West	26 (1.5)	260 (2.7)	36 (1.9)	269 (2.6)	25 (1.1)	268 (2.0)	13 (1.0)	274 (2.8)
STATES								
Alabama	39 (1.5)	247 (2.4)	31 (0.8)	254 (1.8)	23 (1.0)	253 (2.3)	7 (0.7)	257 (2.7)
Arizona	26 (1.2)	262 (1.8)	37 (1.1)	266 (1.8)	27 (1.1)	266 (1.5)	10 (0.7)	265 (2.4)
Arkansas	35 (1.3)	251 (1.5)	35 (1.2)	256 (1.5)	21 (1.1)	262 (1.9)	9 (0.7)	258 (2.8)
California	29 (1.6)	256 (2.6)	36 (1.0)	260 (2.0)	25 (1.2)	266 (2.0)	10 (0.8)	262 (3.2)
Colorado	27 (1.1)	269 (1.7)	39 (0.9)	272 (1.4)	24 (0.8)	274 (1.5)	10 (0.9)	272 (2.4)
Connecticut	24 (1.2)	266 (2.4)	34 (1.0)	274 (1.7)	28 (1.0)	277 (1.5)	13 (0.8)	280 (2.1)
Delaware	26 (1.2)	256 (2.2)	34 (1.0)	264 (1.5)	27 (1.0)	268 (2.0)	12 (0.8)	262 (3.3)
Dist. Columbia	47 (1.4)	231 (1.5)	31 (1.0)	234 (1.7)	17 (1.2)	240 (2.2)	5 (0.7)	253 (7.9)
Florida	30 (1.1)	254 (2.1)	35 (1.0)	261 (2.1)	25 (1.0)	262 (1.8)	10 (0.7)	262 (3.4)
Georgia	42 (1.2)	252 (1.6)	34 (0.9)	263 (1.2)	19 (0.8)	264 (2.2)	6 (0.5)	264 (3.4)
Hawaii	28 (0.9)	254 (1.5)	35 (1.0)	259 (1.3)	26 (1.1)	259 (1.5)	11 (0.8)	257 (2.4)
Idaho	28 (1.1)	275 (1.4)	37 (1.0)	274 (1.0)	25 (0.9)	275 (1.1)	10 (0.7)	273 (2.3)
Indiana	29 (1.2)	268 (1.8)	36 (1.2)	271 (1.5)	25 (1.0)	269 (1.7)	9 (0.7)	269 (3.3)
Iowa	28 (1.1)	283 (1.5)	39 (1.0)	283 (1.1)	24 (1.0)	284 (1.4)	8 (0.6)	280 (2.9)
Kentucky	37 (1.2)	259 (1.4)	36 (0.8)	263 (1.5)	20 (0.8)	264 (1.9)	7 (0.6)	260 (3.0)
Louisiana	46 (1.4)	245 (1.6)	29 (1.1)	250 (2.1)	19 (1.1)	256 (2.6)	6 (0.7)	250 (3.1)
Maine	24 (0.8)	277 (1.6)	35 (1.2)	280 (1.3)	27 (1.1)	278 (1.6)	14 (0.9)	274 (2.2)
Maryland	29 (1.3)	257 (2.2)	37 (1.1)	266 (1.7)	25 (1.1)	267 (1.8)	10 (0.9)	274 (2.8)
Massachusetts	24 (1.3)	266 (1.5)	36 (1.1)	272 (1.5)	28 (0.9)	276 (1.7)	12 (1.0)	276 (2.9)
Michigan	32 (1.5)	261 (1.8)	37 (0.8)	268 (1.8)	23 (1.1)	271 (1.9)	8 (0.6)	271 (3.5)
Minnesota	22 (1.4)	283 (1.8)	36 (1.1)	283 (1.4)	31 (1.2)	281 (1.5)	11 (0.8)	283 (2.5)
Mississippi	50 (1.7)	241 (1.4)	31 (1.0)	248 (2.0)	15 (1.3)	253 (2.1)	4 (0.5)	254 (4.5)
Missouri	33 (1.6)	268 (2.0)	37 (0.9)	272 (1.3)	22 (1.0)	273 (1.8)	8 (0.7)	270 (2.5)
Nebraska	26 (1.1)	278 (1.8)	38 (1.3)	277 (1.5)	27 (0.9)	278 (1.6)	10 (0.6)	272 (2.4)
New Hampshire	21 (1.2)	276 (1.7)	32 (1.1)	278 (1.1)	31 (0.9)	278 (1.4)	16 (0.8)	277 (1.7)
New Jersey	28 (1.4)	263 (2.2)	37 (1.4)	275 (1.6)	25 (1.1)	273 (2.0)	10 (1.0)	280 (2.5)
New Mexico	28 (1.2)	257 (1.6)	35 (1.1)	258 (1.2)	26 (0.9)	260 (1.5)	10 (0.7)	262 (2.6)
New York	24 (1.5)	260 (3.1)	34 (1.1)	268 (2.3)	29 (0.9)	269 (2.0)	12 (0.9)	266 (3.7)
North Carolina	34 (1.4)	252 (1.7)	35 (1.1)	261 (1.7)	22 (0.9)	260 (1.8)	8 (0.6)	260 (3.4)
North Dakota	26 (1.2)	284 (1.6)	38 (1.1)	284 (1.7)	27 (1.0)	281 (1.5)	8 (0.8)	277 (2.9)
Ohio	33 (1.1)	265 (1.9)	37 (1.4)	269 (1.8)	22 (1.2)	270 (1.9)	8 (0.7)	273 (3.2)
Oklahoma	32 (1.5)	264 (1.5)	38 (1.3)	270 (1.5)	23 (1.2)	269 (1.6)	7 (0.6)	264 (3.6)
Pennsylvania	26 (1.4)	266 (2.0)	36 (1.1)	275 (1.5)	26 (1.0)	272 (1.9)	11 (0.9)	266 (3.2)
Rhode Island	22 (1.0)	258 (1.6)	36 (0.9)	267 (1.3)	27 (1.0)	269 (1.5)	15 (0.9)	266 (2.1)
South Carolina	43 (1.3)	254 (1.3)	31 (1.1)	263 (1.6)	20 (1.0)	266 (1.7)	6 (0.6)	266 (2.9)
Tennessee	35 (1.2)	256 (1.9)	37 (0.8)	259 (1.7)	22 (1.1)	262 (2.3)	7 (0.6)	255 (3.0)
Texas	36 (1.4)	260 (1.5)	36 (1.1)	266 (1.9)	20 (1.1)	268 (2.2)	7 (0.6)	267 (3.4)
Utah	27 (1.2)	272 (1.3)	39 (1.0)	274 (1.1)	25 (1.1)	274 (1.3)	8 (0.6)	277 (2.2)
Virginia	32 (1.2)	264 (1.7)	35 (1.0)	269 (1.6)	24 (1.0)	268 (1.5)	9 (0.6)	271 (2.5)
West Virginia	31 (1.3)	258 (1.4)	36 (0.9)	259 (1.2)	25 (1.1)	259 (1.4)	9 (0.6)	254 (2.6)
Wisconsin	24 (1.0)	276 (2.2)	39 (1.0)	276 (1.7)	27 (1.0)	280 (1.8)	11 (0.7)	278 (2.4)
Wyoming	26 (1.2)	274 (1.6)	37 (1.1)	277 (1.3)	26 (0.9)	274 (1.1)	11 (0.8)	269 (2.2)
TERRITORIES								
Guam	49 (1.5)	232 (1.5)	31 (1.4)	239 (1.9)	15 (0.9)	239 (3.1)	4 (0.5)	225 (6.2)
Virgin Islands	46 (1.2)	222 (1.3)	32 (1.3)	221 (1.8)	15 (1.0)	227 (2.7)	7 (0.6)	217 (3.7)